



RANDOLPH COUNTY

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REQUEST FOR BIDS

Bid# 16-0226

FOR Construction of Radio Communications Tower

**Issued on: Friday, February 26, 2016
Due Date: Wednesday, March 30, 2016 at 11:00 AM EST**

Administered by: Lisa T. Garner, Purchasing Officer

NOTICE TO VENDORS

Pursuant to General Statutes of North Carolina Section 143-129 as amended, bids will be received by the Purchasing Officer for Randolph County for the following:

REQUEST for BIDS 16-0226 For Construction of Radio Communications Tower

The County plans to contract for the construction, delivery and set-up of one (1) radio communications tower on property owned by the County located at New Century Drive, Asheboro, NC.

Submission of any bid signifies the Vendor's agreement that its' bid and the content thereof are valid for 90 days (three months) following the submission deadline and will become part of the contract that is negotiated between Randolph County and the successful Vendor. All prices submitted with the bid shall remain in effect for the 90-day period.

Vendors submitting bids shall be screened to determine if the Vendor has any delinquent financial obligations (taxes, fees, etc.) to Randolph County Government and to determine if the Vendor is listed as debarred by state or federal government. A finding of debarment or delinquency shall disqualify the Vendor from consideration.

Randolph County reserves the right to award and/or reject any and/or all bids and waive any technicalities or irregularities. This contract will not be awarded solely on the basis of cost. Rather the contract for this project will be awarded to the lowest responsible, responsive bidder, taking into consideration quality, performance, and the time specified in the bid for the performance of the contract.

Sincerely,

Lisa T. Garner

Lisa T. Garner,
Purchasing Officer

1. Intent and General Information

Randolph County submits this Request for Bids (RFB) for a new radio communications tower (TOWER) which is intended to support two-way radio communication antenna systems for Randolph County First Responders. The Tower shall be purchased for installation at the new Randolph County Emergency Services Headquarters Building located on New Century Drive, Asheboro, NC ((35°-40'-07.1"N 79°-49'-55.0" W)).

The bid and project shall be all be turn-key (meaning all inclusive) for materials, installation and commissioning of the tower, tower foundation, tower electrical, protection, grounding and lightning, antenna transmission line (waveguide) ladder and antenna mounting, sealed (PE) engineering drawings and calculations for North Carolina, and all shipping to the designated location.

The purpose of this solicitation is to provide the Randolph County Emergency Services Headquarters facility with the required class III communication tower for the various radio and microwave antennas to support the facility mission. The communication tower shall be self-supporting and shall meet all specifications of ANSI/TIA-222 Rev G, 2005.

The County will not be bound by or be responsible for any explanation, interpretation or conclusions of this RFB or any documents provided by the County other than those given in writing by the County through the issuance of addenda. The Vendor shall not rely on any oral statements by the County or its' agents, advisors or consultants. It is the full responsibility of the Vendor to thoroughly investigate the needs/requirements of the County as described in this RFB and to propose the tower delivered and set-up in accordance with all building code requirements.

1.1 Applicable Standards

The following Standards documents, in effect at the time of solicitation for bids, are an integral part of this specification. In event of conflict between this specification and the codes, standards, and specifications below, the most stringent and/or current requirement shall govern.

- American National Standards Institute/Telecommunications Industry Association ANSI/TIA-222-G: Structural Standards for Antenna Towers and Antenna Supporting Structures. 2005
- America Welding Society (AWS): Structural Welding Code
- FAA Advisory Circular #AC70/7460: Obstruction Marking and Lighting.
- American National Standards Institute ANSI T1.334-2002: Electrical Protection of Communications Towers and Associated Structures.
- Motorola R56 – Standards and Guidelines for Communication Sites
- NFPA 70, National Electrical Code, 2011

1.2 License

The Vendor/Contractor must hold a current NC General Contractor License with appropriate classification and limitation.

1.3 Issuing Office and Inquiries

This Request for Bids (RFB) is issued by Randolph County Purchasing Office on behalf of Randolph County. Any inquiries, clarifications, or interpretations regarding this RFB should be directed in writing to:

Lisa Garner
Purchasing Officer
Randolph County Administration
725 McDowell Road
Asheboro, NC 27205

(336) 318-6304
lisa.garner@randolphcountync.gov

Responses to inquiries that affect the content of this RFB will be provided in writing to all recipients of the RFB through an addendum that will be posted on the County website, <http://www.co.randolph.nc.us/purchasing/bid.htm>. It is the responsibility of each Vendor to inquire about any aspect of the RFB that is not fully understood or is believed to be susceptible to more than one interpretation. **The County will accept only written inquiries regarding this RFB until Wednesday, March 16, 2016 at 5:00 P.M.** All times listed are understood to be Eastern Standard Time unless otherwise noted. The County's interpretation of the RFB shall be controlling in all cases.

1.4 Important Dates

Issue Date:	Friday, February 26, 2016
Final Date for Written Questions:	Wednesday, March 16, 2016 at 5:00 P.M.
Final Date for Addenda Posting	Wednesday, March 23, 2016 at 5:00 P.M.
Deadline for Submitting Bids:	Wednesday, March 30, 2016 at 11:00 A.M.

1.5 Submission of Bids

Bids must be presented on the **Bid Proposal Form** included in this RFB; emailed, mailed or delivered to:

Lisa Garner
Purchasing Officer
Randolph County Administration
725 McDowell Road
Asheboro, NC 27205

(336) 318-6304
lisa.garner@randolphcountync.gov

Any bid submitted on forms other than the Randolph County **Bid Form** may be disqualified.

In order to be considered for selection, bids must be received by the date, time and place previously outlined. The bidding process will be considered closed at 11:00 A.M. on Wednesday, March 30, 2016. Failure to meet this deadline will disqualify the bidder. Randolph County is not responsible for nor will any allowances be made for bids received after this time and date for any reason.

1.6 General

This RFB contains construction and material specifications. It is not the intention of this Agency to eliminate or disqualify Vendors or manufacturers of similar or equal equipment of the types specified. It should be noted, however, that these specifications are written around specific needs of this Agency. It is the intent of this Agency to standardize certain components. In doing so, specific brands of components have been named. This has been done to establish a certain standard of quality. Other brands will only be accepted providing the Vendor provides documentation in the bid that the particular brand offered meets or exceeds the quality of the actual brand called for in the specification.

1.7 Addenda

Any addendums to the conditions and/or specifications outlined in this document shall be in writing and will be posted on the County's website at <http://www.co.randolph.nc.us/purchasing/bid.htm>. All addendums will become part of this RFB and the contract. Information provided verbally outside these specifications shall not be binding. No oral statements, explanations, or commitments by anyone shall be of any effect unless incorporated into an addendum. It is the responsibility of the Vendor to periodically check the County's website before submitting a bid to obtain any addenda that have been issued. No addendum shall be posted after **5:00 P.M.** on Wednesday, **March 23, 2016**. To signify receipt of all of the addendum issued by Randolph County, please complete **Addenda Acknowledgements** of the **Bid Proposal Form, (page 63)** included in this RFB.

1.8 Exceptions to the RFB

Any exceptions to these specifications outlined in this RFB must be clearly listed and explained on the **Exceptions Area of the Bid Proposal Form, (page 63)** included in this RFB. Otherwise, it will be considered that the items offered are in strict compliance with these specifications and the successful bidder will be held responsible for delivering a communications tower meeting these specifications. Any bidder not complying **shall not** be considered as responsive.

1.9 References

At least three (3) recent business references are required. These references and their contact information shall be listed on the **Reference Area of the Bid Proposal Form, (page 64)** included in this RFB. Randolph County may request additional evidence of the Vendor's experience, qualifications, ability, products, and service facilities, for which the Vendor shall be prepared to provide to Randolph County, if requested.

1.10 Bid Pricing

All bid prices shall be complete and include manufacture, delivery, installation, and warranty of the completed communications tower at the location indicated. Taxes are to be shown as a separate line item. The **Bid Proposal Form (pages 62 thru 65)** shall be used for the purpose of providing these prices. All bid prices and conditions must be specified on the **Bid Proposal Form**. Bid prices shall be valid for at least 90 days from the date of the submission of the bid.

1.11 Bonds

A performance bond and a payment bond will be required for one hundred percent (100%) of the contract price.

1.12 Non-Collusion

By executing and submitting their bid, the Vendor certifies that his bid is made without reference to

any other bid and without any agreement, understanding, collusion or combination with any other person in reference to such bidding.

1.13 Bid Withdrawal

If the Vendor desires to withdraw his bid, he must submit in writing to the Purchasing Office before the bid opening deadline indicating his reason for withdrawal. After the bid opening deadline, bids shall only be withdrawn in accordance with N.C.G.S. Section 143-129.1.

1.14 Bids Property of Randolph County

All bids submitted in response to this RFB become the property of the County once they are received. All bids submitted and supporting material are a matter of public record.

1.15 Rejection of Bids

Vendors submitting bids shall be screened to determine if the Vendor has any delinquent financial obligations (taxes, fees, etc.) to Randolph County Government and to determine if the Vendor is listed as debarred by state or federal government. A finding of debarment or delinquency shall disqualify the Vendor from consideration.

The County reserves the right to reject any and all bids, with or without cause, and to waive informalities when such rejection is in the best interest of Randolph County. Randolph County also reserves the right to reject the bid of a Vendor who has previously failed to perform properly or complete on-time a contract of similar nature.

1.16 Disqualification of Vendors

More than one bid from an individual, firm, partnership, corporation, or association under a different name or names **shall not** be considered. Any or all bids shall be rejected if there is reason to believe that collusion exists among the Vendors. In this situation, all participants in such collusion shall not be considered for the current or future bids for the same work. No contract shall be awarded except to competent, licensed Vendors capable of performing the quality of work contemplated.

1.17 Award

The award of this bid will not be based solely on lowest price. The award will be based and granted on **"BEST VALUE"**. It is the intent of Randolph County to award the contract to the lowest responsive and responsible Vendor. The County reserves the right to determine the lowest responsive and responsible Vendor on the basis of an individual item, groups of items, or any way determined to be in the best interest of the County. Award shall be based on the following factors (where applicable):

- A. Adherence to all conditions and requirements of the specifications.
- B. Price.
- C. Qualifications of the Vendor. In doing this the Vendor's past performance, general reputation, experience, being licensed; quality of product(s), service capabilities, and facilities will be reviewed.
- D. Delivery or completion date.
- E. Maintenance costs and warranty provisions.

Award of this contract based on **"BEST VALUE"** will permit and reflect prudent stewardship of public funds and trust.

1.18 Notification of Award

After all the specifications have been met by the Vendor and the award for this contract is made the successful Vendor will be notified in **writing**, either by a LETTER TO PROCEED or a PURCHASE ORDER or both. Verbal notification of the award is not considered a reliable mode of notification and, therefore, will not be recognized as official notification.

1.19 Contract

As a separate document, a sample of the contract that will be entered into by Randolph County and the Contractor awarded the Construction of the Communications Tower Bid is included. Before submitting a bid, Contractors must be able to meet all of the requirements of the contract. With careful attention to all areas of the contract, particular emphasis must be given to the insurance requirements and the ability of the Contractor to meet all insurance requirements.

1.20 Vendor's Guarantee

By submitting a bid on these specifications, the Vendor binds himself to all conditions in these specifications. Any variance with the specifications must be stated with the submitted bid and may, after review of all consequences of the variance, disqualify the bid.

All regularly manufactured stock electrical items shall be listed by Underwriter's Laboratory, Inc. Other electrical equipment shall be constructed to conform to applicable portions of the National Electrical Code. When electrical components are part of the equipment, the manufacturer's standard guarantee shall apply, unless otherwise specified.

1.21 Taxes

Sales taxes, if applicable, should not be included in the total bid price for the Tower. Sales tax should be listed as a separate item on the bid as well as on the invoice.

1.22 Payment

It is the desire of Randolph County to pay promptly. It is the Vendor's responsibility to submit invoices directly to the Department at the address specified on the Purchase Order as the "Ship and Bill to".

Invoices shall include Purchase Order number, description of item(s), quantities, unit price, extended price, freight, state and local taxes, and date of delivery. Invoices not on printed billheads shall be signed by Vendor.

Invoices exceeding the limits established by the Purchase Order as well as for materials or services not qualifying under the specifications as ordered, are subject to be disqualified for payment.

Because of both the time and expense incurred on this project, invoices may be submitted to Paxton Arthurs, Public Works Director, based on the completion of certain milestones. Subsequent payment of the submitted invoices will be made within 30 days following Paxton Arthurs signed approval and receipt of his request for payment by the Randolph County Accounts Payable department.

Final payment shall be made within 30 days following Paxton Arthurs, Public Works Director, signing off on acceptance of the completion of the Communications Tower project.

Vendors must provide tax information to include vendor's full business name, address, "remit to" address, and federal tax identification number.

1.23 Indemnification

The successful Vendor shall hold the County, to include all Board members and employees, harmless from all liabilities, obligations, losses, claims, damages, actions, suits, proceedings, costs, expenses, including attorneys' fees, that:

- a) Arise out of, are connected with, or result directly or indirectly from the successful Vendor's failure to perform any of its obligations under this request for bids; or
- b) Are a result, of a breach of any of the successful Vendor's warranties. No indemnification responsibilities created by this section shall survive and be enforceable after the contract between the County and the successful Vendor terminates or expires.

2. Radio Communication Tower Specifications

This section describes the specifications of this RFB for the tower and tower components, antenna systems, supporting hardware, foundation and grounding/lightning protection with installation and commissioning.

2.1 General Tower Specifications

The radio communication tower shall be one hundred fifty feet high and shall be constructed of steel pipe legs with steel angle cross members/bracing. The tower shall be constructed with three sides with a nominal base spread between each of the three legs of sixteen (16) ft. – nine (9) inches and a nominal top spread of four (4) ft. – six (6) inches. All steel shall be hot dip galvanized (inside and outside of legs).

The exposure category shall be category "C" that reflects the characteristics of ground surface irregularities at the site and the topographic category 1 shall be used for the site.

The communication tower shall be designed with a 75 foot fall radius consideration and shall be provided with a sealed fall letter.

The tower shall be fabricated in an AISC Certified Fabricator Facility, and if requested by the county, proof of same shall be provided.

The tower shall have a foundation that is the Raised Pier Design with Mat that is twenty-two (22) feet square and shall be installed by the selected contractor. Each of the three Raised Piers shall be three (3) feet across (circular). The Raised Pier and Mat shall be a minimum of five (5) feet in depth (this may change due to final tower design and loading calculations). The tower foundation initial design is based on presumptive CLAY soil parameters. Since the tower will be a Class III design, the previously supplied geotechnical site investigation as defined below shall be used for final foundation design. Refer to Table 2-1 below for a list of antennas to be mounted on the tower.

For information purposes, Dave's Mountain site location coordinates are 35°-43'-34.6"N 79°-49'-45.1"W and Cedar Rock Mountain coordinates are 35°-36'-55.4" 79°-53'-26.3"W. Also, the VHF Vertical for Paging shall go as high as possible on the tower.

The tower design shall provide for all of the antennas (2.3 below and table 2-1), plus the future addition of one microwave dish antenna with a maximum size of six (6) feet and one additional VHF (155MHz) vertical and one additional UHF (450MHz) vertical antenna.

The tower shall be designed to support all the above under a wind load of 120 MPH per TIA RS-222-G and the tower shall support an ice load of .75 (3/4) inch with a 30MPG wind load.

This RFB specifies no twist or sway limitations for the tower but follows the requirements of TIA-222-G.

The tower shall include all anchor steel, anchor bolts, and templates for all legs. All tower assembly hardware shall be included.

A single Climbing ladder with safety rail shall be provided for one of the three sides of the tower and shall go to the top of the tower. The tower shall include an approved (ANSI A10.14-1991, ANSI Z359) cable-type safety climb system and harness. The base of the climbing ladder shall be at a minimum height of 8 feet above ground so that vandals may not easily access the tower.

Grounding materials shall be supplied with the tower which shall comply with the specifications shown in the section "Grounding, Surge Suppression, and Entrance Panels", p. 5, and as required to meet the grounding standards cited in this document. A lightning rod shall be provided and cannot exceed an overall height of 155 feet when attached at the top of the tower.

Option #1, the bidder's proposal shall have a separate line item for installation of Randolph County provided antennas, transmission lines, lightning surge suppressors, coax grounding straps/conductors, and associated hardware for the antenna list (**Table 2.1**) on the next page. All other hardware to be mounted on the tower is to be considered a part of the bid.

Table 2-1 – Antenna Types & Installation Locations

Frequency (MHz)	Antenna Type (Model#)	Transmission Line Size	Height (Ft)	Azimuth	Notes
800 MHz	ANT734-960F2 (Telewave)	1/2" LDF4-50	142 Ft		Vertical – 2.5dB collinear Virtual Consolette
800 MHz	ANT734-960F2	1/2" LDF4-50	142 Ft		Vertical -Virtual Consolette
800 MHz	ANT734-960F2	1/2" LDF4-50	142 Ft		Vertical -Virtual Consolette
800 MHz	ANT734-960F2	1/2" LDF4-50	136 Ft		Vertical -Virtual Consolette
800 MHz	ANT734-960F2	1/2" LDF4-50	136 Ft		Vertical -Virtual Consolette
155.895/ 154.415	DB222-A Andrew	7/8"	150 Ft		VHF Page & Fire via combiner – Vertical
450-470 MHz	BMXD450G Yagi PCTEL	7/8"	110 Ft	311.67°	Med 8/10 – Yagi to Shepard Mt
800 MHz	ANT734-960F2	1/2" LDF4-50	128 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	128 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	128 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	122 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	122 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	122 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	116 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	116 Ft		Vertical
800 MHz	ANT734-960F2	1/2" LDF4-50	116 Ft		Vertical
5250 to 5850 MHz	RAD 2ft Dish Airmux ODU	Cat 5	136 Ft	2.35°	M/W to Dave's Mt
5250 to 5850 MHz	RAD 2ft Dish Airmux ODU	Cat 5	148 Ft	221.92°	M/W to Cedar Rock Mt
10-11GHz	VHLPX2-11 W/A	SM Fiber & Belden 9314	102 Ft	2.35°	M/W back haul dish to Dave's Mt
10-11GHz	VHLPX2-11 W/A	SM Fiber & Belden 9314	104 Ft	43.04°	M/W back haul dish to McDowell Center

Note: TV antenna and GPS antenna mounted on lower level of tower < 60 Ft.

2.2 Transmission Lines

Transmission lines shall be provided by Randolph County for each antenna mounted to the proposed tower. The antenna transmission lines supplied (including any jumpers) shall be of a length sufficient to reach from the antenna connector to the radio equipment demarcation interface (Telephone Room 133 west wall). All transmission lines supplied by Randolph County shall be

mounted to the tower in the vendor supplied 15-hole waveguide ladder with four (4) foot spacing from tower base to top.

2.3 Antennas

Randolph County shall provide the following types of antennas to be mounted on the tower (Table 2-1):

- Fourteen (14) each – 800 MHz verticals for various functions,
- one (1) each VHF vertical antenna,
- one (1) each UHF yagi antenna,
- one (1) RAD Airmux ODU w/ 2ft dish antenna pointed toward Dave's Mountain,
- one (1) RAD Airmux ODU w/ 2ft dish pointed toward Cedar Rock Mountain,
- two (2) each two (2) foot 10-11.5 GHz dish antennas for back haul (existing sites to be provide),
- one (1) GPS antenna for the building time clock, and
- one (1) TV Antenna (Channel Master ULTRAenna60) RG-6 coax.

Each vertical antenna shall be mounted on a 3 foot sidearm that shall be mounted to the tower. Each dish antenna shall be mounted to the tower with a Leg Dish Mount (less 2 ft. dish antennas). The successful vendor shall provide the 3 foot sidearm and the Leg Dish Mounts and supporting hardware for each antenna specified above.

One additional Leg Dish mount for a four (4) to six (6) dish shall be supplied for future use as well as two (2) each three (3) foot side arms for mounting vertical antennas. These units shall be provided to the county for storage and handling until required in the future.

Randolph County shall provide the successful bidder with the antennas and transmission lines for mounting on the tower, if the county decides to exercise the option described in Section 2.1, paragraph 13 above.

2.4 Grounding and Surge/Lightning Suppression

The following sections describe the grounding and lightning suppression systems that shall be provided with the tower by the successful bidder/vendor.

2.4.1 General Grounding Conductors and Lightning Rod Specifications

The successful vendor/bidder shall provide a five (5) foot lightning rod to be placed at the top of the tower. The lightning rod shall be connected to the ground ring under the tower with copper conductor.

The tower grounding shall be in accordance with Motorola R56 (Sections 4.4.1.7 and 4.7.6, pg. 4-19 and 4-50 respectively and Figure 4-19, pg. 4-24) and ANSI T1.334-2002. The vendor bid shall include an adequate estimate to cover this grounding scheme as well as connection (exothermic welds as required) in two places to the building ground ring. All tower grounding conductors shall be bare tinned solid (below grade) #2/0 AWG or larger copper wire. Solid straps or bars may be used as long as the cross-sectional area equals or exceeds that of the specified grounding conductor.

All connections between the tower ground ring conductor and the ground rods shall be exothermic weld (Cadweld) using shots that shall be sized according to the conductor and ground rods in use.

All tower ground ring ground rods shall be 3/4 inch x 10 feet minimum, solid copper or copper clad steel. The tower ground ring ground rods shall be spaced a minimum of twenty feet apart.

2.4.2 Tower Ground Bus Bar

One (1) single-point Tower Ground Bus bar (TGB), similar to the Commscope/Andrew P/N 294806/7, mounted at the base of the tower, no more than ten (10) feet above ground.

The TGB shall provide a convenient termination point for multiple transmission line grounding conductors. The tower ground bus bar should be an integral part of the tower construction or vertical transmission line cable ladder assembly. The TGB shall be constructed and initially sized in accordance with the specification shown below, ensuring the ground bus bar is large enough to accommodate all present and future coaxial cable connections described elsewhere in the document. The tower ground bus bar shall be physically and electrically connected to the tower.

ITEM	SPECIFICATION
Material	Bare, solid Alloy 110 (99.9%) copper bus bar or plate of one piece construction. May be electro tin-plated.
Minimum Width	5 cm (2 inches)
Minimum Length	35.6 cm (14 inches)
Thickness	0.635 cm (.250 inch)
Mounting Brackets	Stainless Steel
Conductor mounting holes	Number dependent on number of conductors to be attached, including present and future plans. Holes to be 1 cm (7/16 in.) minimum on 1.9cm (3/4 in.) centers to permit the convenient use of two-hole lugs.
Acceptable methods of attachment of grounding electrode conductor	Exothermic welding Irreversible crimp connection

2.4.3 Lightning Surge Protection

Randolph County shall provide in-line lightning surge protectors for each RF transmission line. The surge protectors shall be 50 ohm and mate with the transmission line connectors and jumpers on the tower. The transmission line surge protectors shall be provided for the appropriate band (VHF, UHF, and Microwave) signal that is carried on the transmission line.

2.5 Tower Protection and Tower Signage

The following sections describe the tower signage and tower protection to be provided with the Tower installation.

2.5.1 Tower Protection

The tower shall be surrounded by an 8 foot high chain link fence with at least two strands of barbed wire mounted on arms that angle out over the fence away from the tower. The chain link fence will

have a double gate installed with a double gate latches (top and bottom) that can be pad locked. The double gate shall provide at least 8 feet of width to access the tower area when opened. The single double gate shall be provided with a sensor or contacts that shall enable an audible alarm in the E911 center when the gate is opened (with alarm cut-off).

The planned building security system is based on the Sielox 1700 controller that recommends Belden 8761 for a maximum 500 feet for inputs.

The chain link fence may be subcontracted to a local company by the successful bidder/vendor if desired. The chain link fence should be installed as soon as practical but before the tower commissioning is complete.

2.5.2 Tower Signage

Warning signs shall be mounted on each side of the tower and two both sides of the chain link fence double gate. The signs shall display the warning "WARNING – RF/Microwave Energy Controlled Area", and shall comply with ANSI C95.2-1982 Ref. 3, Z35.1-1972, and Z53.1-1979 or with Motorola R56, Appendix A, Figure A-14 pg. A26, and shall warn of high RF fields. The signs shall be impervious to weathering, and shall be mounted to avoid ease removal by vandals.

Additionally, the chain link fence shall have signs mounted to each side "Authorized Personnel Only – No Trespassing". These signs shall be impervious to weathering and shall be mounted to avoid ease removal by vandals.

2.5.3 Tower Aircraft Lighting

Option #2, lighting for the tower shall only be provided as directed by the FAA after Randolph County has submitted the FAA form 7460 and been notified by the FAA that the tower must have aircraft warning lights installed. Lighting will be per FAA requirements for towers under 200 feet.

The bidder/vendor shall propose as an option Dual LED lighting (white/day – red/night) which may be required to meet FAA requirements for aircraft safety.

3. Radio Communication Tower Erection, Installation and Commissioning.

The proposing vendor/contractor shall provide a plan to meet the requirements of the following services and shall describe same in their proposal. Unless a specific service is exempted by the vendor/contractor, all stated services shall be provided in their entirety by the successful vendor/contractor.

3.1 General Installation Standards

The proposing vendor/contractor shall provide two sets of stamped engineering tower drawings for the tower and foundation with a valid seal from a register North Carolina Professional Engineer.

The overall radio communication tower implementation shall be considered "turn-key" meaning that the successful contractor shall consider (and price) all necessary equipment, materials, labor, and technical planning to provide a completely functional tower as proposed. The responsibility for the successful, safe, and proper implementation of the proposed tower system shall lie solely with the successful bidder/contractor. The proposed radio communications tower shall be supervised, coordinated, erected and installed by experienced and knowledgeable personnel. Erection and installation shall be done consistent with "good" engineering practices, according to industry

standards, and all work areas shall be maintained in a neat, clean, and orderly manner at the end of each workday.

Subcontractors may be used for specific portions of the project. The intended use of such subcontractors shall be stated in the proposal and the specific area of work to be performed.

The attached "Geotechnical Engineering Report, Proposed Randolph County Emergency Services Headquarters Building, New Century Drive, Asheboro, NC" S&ME Project No 1335-15-037 shall be used to meet the requirements of TIA-222-G Class III tower soil bore sampling. The bores shown on Figure 2 of the report at the locations B6, B3, and S1 apply as those nearest the tower location (Reference Drawing "TK-101 Revised Site Tower Conduit Run & Comm Vaults-012816.pdf" for tower location with respect to building).

Randolph County shall be responsible for obtaining a zoning permit for the radio communications tower at the New Century Drive location.

The tower foundation mat shall be below ground at a sufficient depth to allow for a four (4) foot deep concrete communications vault to be placed above the mat (8200 lbs. concrete vault 6x4x4 ft. provided by GC). The depth should be sufficient to allow for the comm vault and at least 3 inches of gravel below the vault for drainage. The communication vault will have four (4) inch conduits that terminate in the building telecommunications room to provide a path for the various coaxial cables. The communications vault is to be provided by others and will require coordination between the successful bidder/vendor and other contractors on site.

3.1.1 Implementation Schedule

The successful bidder/vendor shall submit to Randolph County, within 30 days of contract award, a project timetable including the delivery schedule and installation of all equipment and commissioning from award of contract to final acceptance.

The project schedule shall take into account the impact of other events and construction at the site, and coordination with EMS Headquarters building contractor Miles-McClellan, Randolph County Project Manager and Technology Consultant, prior to the successful implementation of each major step.

The successful bidder/vendor shall provide a single point of contact for the project to Randolph County. The proposal shall contain the name, title, address and phone numbers (office and mobile) of the single point of contact for the project.

3.1.2 FCC Tower Registration

If required, the contractor shall assist Randolph County by providing information relevant to registration of the tower site under the FCC Antenna Site Registration rules, CFR 47 Part 17.

3.2 Shipping and Delivery

The bidder's proposal shall include all shipping cost to deliver all materials to the nearest access point to the site via flat-bed tractor trailer, including unloading. Pricing shall include all labor to move the materials from the unloading site to the actual tower location, if different. If the implementation schedule requires that anchor steel be shipped prior to the remainder of the tower, then the bidder shall include that caveat in the proposal, and shall cover all costs associated with the extra shipping, unloading, handling, etc.

Two (2) complete sets of tower assembly drawings (prints) and one (1) electronic copy (CD/DVD) shall be provided and shipped with the tower parts or submitted electronically to Randolph County (PDF & CD/DVD). Complete packing slips shall be provided for the tower. The complete set of prints (2 and 1 electronic copy) shall be placed in moisture-proof bags with the material and hardware packing slips and secured to the tower material or crating, if electronic means are not used.

3.3 Tower Erection

The construction of the tower foundation, installation of the grounding, and the erection of tower structural steel shall be performed by personnel experienced and knowledgeable concerning communications towers, and shall be in accordance with the applicable provisions of the EIA/TIA RS222-G standard.

All construction practices shall be performed in a professional and safe manner, compliant with federal, state, and local codes and consistent with applicable industry standards. The Contractor shall obtain any required building or electrical permits from the City of Asheboro prior to initiating any site construction.

Randolph County shall be notified five (5) working days prior to completion of excavation, forming, and setting of foundation reinforcing steel so that a Randolph County representative can, at his/her option, observe work prior to pouring concrete.

After the erection of the steel tower is complete, the contractor shall verify that the tower tolerances are within manufacturer-required limits.

The tower shall be grounded continuously during the erection phase.

3.4 Contractor Responsibilities

The successful vendor shall be responsible for the following:

- Provide all tower material, as outlined in vendor's bid response, regardless of manufacturer.
- Provide engineering, erection, and installation services for all equipment, including that provided by Randolph County (Section 3.5 below), as outlined in vendor's bid response, regardless of manufacturer and as defined in these specifications.
- Provide a detailed project schedule which outlines all tasks involved with the implementation of the proposed tower. Oversee and coordinate all installation scheduling.
- Provide all engineering and planning related to the tower including State of North Carolina Sealed drawings.
- Provide documentation and manuals per specifications.

3.5 Randolph County Responsibilities

Randolph County shall provide the following;

- All transmission lines, jumpers, lightning surge protection and coaxial cable grounding straps/conductors.
- All antennas (if antenna installation option is awarded)
- FAA form 7460-1 submittal
- Provide reasonable access to the facilities where the tower is to be installed.

3.6 Warranties and Service Agreements

The manufacturer(s) and the bidder shall warranty the operation and functionality of the proposed tower for one year following final acceptance. All parts and labor shall be covered under the warranty. Labor warranty repairs shall be covered 24 hours a day, 7 days a week (24x7) for the tower provided to Randolph County.

The system warranty shall begin as stated above upon final acceptance. The bidder shall include in the proposal a statement of the terms and conditions of all warranties which apply.

3.7 Acceptance

The Technology Consultant accompanied by the Randolph County Project Manager, Code Inspection Group, Randolph County Technology Office and Contractor shall conduct site inspections to determine the dates of substantial and final completion for acceptance. The Project Manager will issue the only recognized official notice of substantial completion (Certificate of Acceptance). The Consultant shall prepare and distribute the coordinated punch list, written warranties and other related forms and documents, supplied by the Contractor, to the Project Manager for review and certification of final acceptance. If applicable, the punch list shall include a list of recommended spare parts.

The Technology Consultant shall review all project close-out documents and drawings as submitted by the Contractor to ensure that they comply with the requirements of this specification, the applicable standards and Motorola R56. The Consultant shall forward the package to the Project Manager within fourteen (14) working days from the date the Certificate of Acceptance is issued. The Consultant shall also submit a letter certifying that the project was completed in accordance with the contract documents/specification.

4.0 ATTACHMENTS

SA-1 – PROCUREMENT SITE TOWER PRELIMINARY DETAILS 01-27-16
SA-2 - PROCUREMENT SITE TOWER BASE & FOUNDATION PRELIMINARY DETAILS 01-27-16
TK-101_REVISD- SITE TOWER CONDUIT RUN & COMM VAULTS-012816.pdf
1335-15-037 EMERGENCY SERVICES HEADQUARTERS GEOTECH REPORT

GENERAL CONDITIONS

ARTICLE 1. DEFINITIONS

- 1.1** Agreement—the Contract, the General Conditions, and any Supplementary Conditions.
- 1.2** Architect—the person or firm designated as the Architect in the Contract Documents, or their authorized representatives. The Architect(s), as referred to herein, shall mean architect, Technology Consultant, and/or engineer. They will be referred to hereinafter as if each were of the singular number, masculine gender.
- 1.3** Change Order—A written order to the Contractor signed by the Owner and the Architect authorizing an addition, deletion or revision in the Work and/or an adjustment in the Contract Price and/or the Contract Time issued after the execution of the Contract.
- 1.4** Completion Date—the dates identified as the completion dates in the Contract, Construction Schedule or elsewhere in the Contract Documents.
- 1.5** Construction Change Directive—a written order to the Contractor signed by the Owner and the Architect directing an addition, deletion, or revision in the Work after execution of the Contract, in circumstances when the parties have been unable to agree on an adjustment to the Contract Price or the Contract Time, but the Owner requests that the Contractor proceed with said Work subject to adjustment of the Contract Price and/or Contract Time under the procedures described herein.
- 1.6** Construction Schedule—that schedule described in Article 13 hereof and identified as the Construction Schedule.
- 1.7** Contract—the document executed by the Contractor and the Owner to formally memorialize their consent to the terms of the Agreement.
- 1.8** Contract Documents—all of the documents that make up the Agreement, plus the Drawings and Specifications that describe the scope of the Work plus any allowable Modifications to the Contract Documents.
- 1.9** Contract Price—the total monies payable to the Contractor under the Contract Documents.
- 1.10** Contract Time—the number of calendar days stated in, or computed from, the Contract Documents for the completion of the Work, or any portion thereof. See particularly Article 13 hereof and the Construction Schedule. Time of completion as specified therein is of the essence.
- 1.11** Contractor—that party identified as such in the Contract.
- 1.12** Days—unless otherwise indicated, the term “days” shall mean consecutive calendar days.
- 1.13** Drawings—The Drawings are the graphic and pictorial portions of the Contract Documents, wherever located and whenever issued, showing the design, location and dimensions of the Work, and generally including plans, elevations, sections, details, schedules and diagrams.
- 1.14** Field Order—a written order issued by the Architect which clarifies or interprets the Contract Documents or orders minor changes in the Work in accordance with the Contract Documents. See paragraph 14.3.
- 1.15** Final Completion—the point at which the Contractor has, as determined by the Architect, completed the Work, with the exception of guaranty and warranty obligations and becomes

entitled, upon the recommendation of the Architect and determination by the Owner, to final payment.

- 1.16** Liquidated Damages—See paragraphs 13.16 and 13.17 of these General Conditions.
- 1.17** Modification—(A) a written amendment to the Contract Documents signed by the Owner and the Contractor and identified therein as such, (B) a Change Order, (C) a Construction Change Directive, or (C) a Field Order. A Modification may only be issued after execution of the Agreement.
- 1.18** Notice of Award—the written notice by the Owner to the Contractor that the Contractor is the successful Bidder and that upon compliance with the conditions precedent to be fulfilled by the Contractor within the time specified, the Owner will execute and deliver the Agreement to him.
- 1.19** Notice to Proceed—See paragraph 13.3 of these General Conditions.
- 1.20** Owner—the Owner is the person designated as such in the Agreement.
- 1.21** Owner's Authorized Representative—a person or persons employed by the Owner and designated from time to time by written notice to the Contractor to administer the Contract Documents and to observe and monitor the Work on behalf of the Owner with authority and responsibility as herein specified.
- 1.22** Notice—the term “notice” or “written notice” as used herein shall mean and include all written notices, demands, instructions, and claims approvals and disapprovals furnished by the Owner or the Architect to obtain compliance with the requirements of the Contract Documents, as well as written notices, demands, instructions, and claims furnished by the Contractor as required by the Contract Documents. Where notice is required under the terms of the Contract Documents, written notice shall always be required, and oral or “constructive” notice shall be insufficient and ineffective as notice. Email or other electronic delivery shall be insufficient and ineffective as notice unless specifically allowed in the Supplementary Conditions or a Modification to the Agreement. Written notice shall be deemed to have been served on the date that it is delivered in person to the individual or to a member of the firm, to an officer of the corporation for whom it is intended, to an authorized representative of such individual, firm or corporation, or on the date that it is mailed by registered or certified mail, return receipt requested, addressed to the last business address of such individual, firm or corporation known to the person giving the notice. In the case of delivery in person, such delivery shall not be effective unless and until a written and signed receipt showing the date and time of delivery is obtained.
- 1.23** Project—the total construction of which the Work performed under the Contract Documents may be the whole or a part.
- 1.24** Project Manager—that person designated by the Contractor in accordance with paragraph 7.2 who shall be in general charge of the Work and its performance.
- 1.25** Request for Information—a written communication from the Contractor to the Architect for any interpretation of, or information needed, required, or desired under the Contract Documents. The Owner reserves the right to determine the reasonable format and contents required for a Request for Information. In any Request for Information, the Contractor shall state a reasonable date by which a response is necessary in order to avoid delay in progress on the Work and shall make such request sufficiently in advance of such date as to avoid any such delay. The Architect shall respond in writing to the Request for Information by the date stated by the Contractor unless he cannot reasonably do so, in which case he shall, prior to that date, notify the Contractor of the date by which he can reasonably respond. The Contractor shall not be entitled to any additional time for the completion of the

Work or any portion thereof by reason of the Architect's failure to respond if he has not submitted his Request for Information sufficiently in advance to allow the Architect a reasonable time within which to respond.

- 1.26** Request for Payment—the form, in the form of AIA Document G702 or other published document approved by the Owner, which is to be used by the Contractor in requesting progress payments and which is to include a Schedule of Values as required by the Contract Documents and an affidavit of the Contractor that progress payments theretofore received from the Owner on account of the Work have been applied by the Contractor to discharge in full all of the Contractor's obligations incurred in connection with the Work covered by all prior applications for payment.
- 1.27** Schedule of Values—any breakdown of the Contract Price which may be required by the Contract Documents, and designated as such.
- 1.28** Specifications—that portion of the Contract Documents consisting generally of the written requirements for materials, equipment, construction systems, standards, and workmanship for the Work and the performance of related services.
- 1.29** Subcontractor—a person, firm or corporation who has entered into a direct contract with the Contractor to perform any of the Work on the Project.
- 1.30** Submittal—shop drawings, product data, samples, and other documents required by the Contract Documents to be submitted by the Contractor to the Architect.
- 1.31** Submittal Register—see paragraph 13.2 of these General Conditions.
- 1.32** Substantial Completion—the point at which the Work on the Project, as determined by the Architect, is sufficiently complete in accordance with the Contract Documents that it can be beneficially occupied by the Owner and the Work can be utilized by the Owner for its intended use, and all necessary permits and permissions for beneficial occupancy and utilization have been obtained by the Contractor. All operations and maintenance manuals, Owner training, and as-built drawings must be submitted prior to Substantial Completion being achieved.
- 1.33** Sub-subcontractor—a person or entity that has a direct or indirect contract with a Subcontractor to perform any of the Work at the Project.
- 1.34** Work—the construction and services required by the Contract Documents, including all labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations.
- 1.35** All references in the Contract Documents to the masculine shall be interpreted as including the feminine or neuter and all references in the Contract Documents to the singular or the plural shall be interpreted as including the other, as may be appropriate in the reasonable interpretation of the Contract Documents.

ARTICLE 2. CORRELATION, INTERPRETATION AND INTENT OF THE CONTRACT DOCUMENTS.

- 2.1** It is the intent of the Specifications and Drawings and other Contract Documents to describe a complete Project in accordance with the Contract Documents.
- 2.2** The Contract Documents are complementary, what is called for by one is as binding as if called for by all. If the Contractor finds a conflict, error or discrepancy in the Contract Documents, the Contractor shall notify the Architect in writing before proceeding with the Work affected thereby. In resolving such conflicts, errors and discrepancies, the Contract

Documents shall be given preference in the following order: Construction Agreement, Modifications, Addenda, Supplemental Conditions, General Conditions, Specifications, and Drawings. Figure dimensions on Drawings shall govern over scale dimensions, and detailed Drawings shall govern over general Drawings. Any Work that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials or equipment described in words, so applied, have a well-known technical trade meaning shall be deemed to refer to such meaning and to incorporate any recognized standards which are a part of such meaning.

- 2.3** Miscellaneous items, accessories, and work which are not specifically mentioned, but which are essential to produce a complete and properly operating installation, or useable structure or plant providing the indicated function shall be furnished and installed without change in the Contract Price. Such miscellaneous items and accessories shall be of the same quality standards, including material, style, finish, strength, class, weight, and other applicable characteristics, as specified for the major component of which the miscellaneous item or accessory is an essential part, and shall be approved by the Architect before installation. This requirement is not intended to include major components not covered by or inferable from the Contract Documents.
- 2.4** The Work of all trades under the Contract Documents shall be coordinated by the Contractor in such a manner as to obtain the best workmanship possible for the entire Project and all components of the Work shall be installed or erected in accordance with the best practices of the particular trade.
- 2.5** The Contractor shall fully complete the Work and shall be responsible for all of the Work under the Contract Documents to which the Agreement applies. If the Contractor is prevented from doing so by any limitation of the Contract Documents, the Contractor shall immediately give notice thereof to the Architect and the Owner in writing before proceeding with the construction in the area where the problem or limitation exists.
- 2.6** Standard specifications or manufacturers' literature, when referenced, shall be of the latest revision or printing unless otherwise stated and is intended to establish the minimum requirements acceptable.
- 2.7** For those materials specified without the use of brand names, the Contractor shall submit within thirty (30) days after his receiving the Agreement for signatures, any product that meets the express requirements of the Specifications. Such Submittal shall include manufacturer's data, test reports, performance data and certifications, samples, erection details, and other applicable information as required to permit determination by the Architect whether such proposed products are suitable. The Architect shall be the sole judge as to the suitability of any proposed product. The burden of proof of quality rests with the Contractor.
- 2.8** The Contractor is required to examine and read the complete set of Contract Documents for information concerning the Work. No allowance will be made for the Contractor's failure to become familiar with the complete set of project documents.
- 2.9** Contractor's requests for clarification or information shall clearly define the cause(s) of Contractor's request and, as appropriate, shall include the Contractor's interpretation and Contractor's proposed solution.

ARTICLE 3. FAMILIARITY WITH WORK, CONDITIONS AND LAWS

- 3.1** The Contractor has investigated prior to bidding and is satisfied with all conditions affecting the Work, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electrical power, roads and

uncertainties of weather, or similar physical conditions at the Project site, and the character of equipment and facilities needed prior to and during prosecution of the Work. The Contractor is satisfied as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from inspection of the Project site, including all exploratory work done by the Owner, as well as from information presented by the Contract Documents, or any other information made available to the Contractor prior to receipt of bids. Any failure by the Contractor to become acquainted with the available information shall not relieve the Contractor from the responsibility for estimating properly the difficulty or cost of successfully performing the Work.

- 3.2** The Contractor shall be entitled to rely upon all information furnished to the Contractor in writing by the Owner with respect to the Project site and to make all inferences from it that would reasonably be made by a contractor having knowledge and experience with similar work; however, the Contractor shall not be entitled to infer from Owner-supplied information any fact or condition which would not be inferred by a contractor having knowledge and experience with similar work, and if the Owner-supplied information is inadequate or insufficient in any respect, the Contractor shall be required to obtain independently such other information as a knowledgeable and experienced contractor would prudently obtain in order to evaluate any such condition.
- 3.3** The Contractor specifically acknowledges familiarity with all Federal, State, and local laws, ordinances, rules and regulations which may in any manner affect those engaged or employed in the Work, or the materials or equipment in or about the Work, or in any way affect the conduct of the Work and agrees that the Contractor and the Contractor's employees, subcontractors, and suppliers will, at all times, comply with same. If the Contractor shall discover any provisions in the Contract Documents which are contrary to or inconsistent with any such law, ordinance, rule or regulation, the Contractor shall immediately give notice thereof to the Architect and the Owner in writing, identifying any items of Work affected, and the Contractor shall not proceed until the Contractor has received written direction from the Architect with respect to these items. If the Contractor performs contrary to or inconsistently with any such law, ordinance, rule or regulation without giving such notice, the Contractor shall bear all costs which are a consequence of such performance.

ARTICLE 4. BONDS

- 4.1** A performance bond in the full amount of the Contract Price shall be required of the Contractor to guarantee the faithful performance of the work in compliance with the Contract Documents, in such form as may be required by law and approved by the Owner. The bond shall be dated the same date as the Agreement and must be accompanied by a current copy of the power of attorney for the attorney-in-fact executing such bond on behalf of a surety company licensed to do business in the state of North Carolina.
- 4.2** A payment bond in the full amount of the Contract Price shall be required of the Contractor to guarantee the payment of all labor and material costs or claims in connection with compliance with the Contract. The payment bond shall be in such form as may be required by law and approved by the Owner. Said bond shall be dated and executed in the same manner as the performance bond referenced in paragraph 4.1 above.

ARTICLE 5. INSURANCE AND INDEMNITY

- 5.1** **CONTRACTOR PROVIDED INSURANCE**—The Contractor shall, without limiting its obligations or liabilities, procure, pay for and maintain such insurance as is required by law and as is required by this Agreement to protect the Contractor and the Owner from claims or damages for bodily injury, including death, and from claims for property damage which may arise from the Contractor's or its representatives', consultants', Subcontractors',

agents', or employees' operations under this Agreement. Such insurance shall be of the kinds and have the limits of liability and coverages not less than the minimum limits hereinafter specified or required by law, whichever is greater. The Owner makes no representation as to the adequacy or sufficiency of such coverages. The following requirements shall in no way be construed to limit or eliminate the liability of the Contractor, which arises from the performance of Work under the Agreement. The Contractor is strictly responsible for any losses, claims and costs of any kind which exceed the Contractor's limits of liability, or which may be outside the coverage scope of the policies.

The insurance specified shall be provided by an insurer approved by the Owner, authorized to do business in the State of North Carolina, and on terms approved by the Owner. Insurance companies utilized shall have a minimum rating of A- and Class VII as evaluated by the most current A.M. Best Rating Guide. If the insurer has a Best Rating less than A- and Class VII, the Contractor must receive specific written approval from the Owner prior to proceeding with any Work under the Agreement. All agents and brokers shall hold valid licenses from the State of North Carolina. Before commencing mobilization to the Project site and not less than 7 days after receipt of the Agreement by the Contractor for signatures, the Contractor shall furnish to the Owner a certificate or certificates of insurance in a form satisfactory to the Owner. Upon request of the Owner, the Contractor shall provide the Owner with certified copies of the insurance policies required by this Article, including without limitation declaration pages, conditions, exclusions and endorsements, and confirmation that each policy premium has been paid for the required term of this Agreement. Certificates shall be signed by a person authorized by that insurer to bind coverage on its behalf. All insurance policies shall provide, as evidenced by Certificates of Insurance, that the insurance shall not be canceled, reduced, restricted, or changed in any way without at least 30 days prior written notice to the Owner. With regard to expiration, cancellation, reduction, restriction, or any other change, certificates shall state: "Should any of the following described policies be canceled before expiration date or be due to expire within 30 days, the insurer shall mail 30 days prior written notice to named certificate holder." In the event of any such cancellation, non-renewal, reduction, restriction or change in any insurance, the Contractor is obligated to replace such insurance within 7 days without a gap in coverage and file accordingly such notice with the Owner and other interested parties. Failing immediate receipt of evidence of such replacements of insurance the Owner reserves the right to procure such insurance as the Owner considers desirable and the Contractor shall pay or reimburse the cost of the premium in respect thereof. It is expressly provided, however, that any action or inaction on the part of the Owner in this respect shall in no way change or reduce the Contractor's responsibilities and liabilities under this Agreement. Self-funded, policy fronting, or other non-risk transfer insurance mechanisms are not acceptable without prior written approval of the Owner. Full disclosure of such a program must be made prior to commencing mobilization to the Project site. Failure to make a full disclosure constitutes a material breach of this Agreement, justifying termination for default.

The Contractor shall name the Owner, the Architect, the Architect's consultants, and the Construction Manager as additional insureds under all its insurance contracts (except workers' compensation) with respect to and including without limitation liability arising out of activities performed by and on behalf of the Contractor, products and completed operations of the Contractor, and automobiles owned, hired, leased, or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to additional insureds.

For any claims related to this Project, the Contractor's insurance shall be primary and noncontributory with respect to the Owner's insurance. Any insurance or self-insurance maintained by the Owner shall be excess and noncontributory with respect to the Contractor's insurance.

All policies of insurance shall contain a clause waiving rights of subrogation against the Owner, unless the Owner approves otherwise in writing.

Limits of coverage are not to be amended by deductible clauses of any nature without the express written consent of the Owner. The Contractor shall be solely responsible for any deductible assumptions that may exist in any insurance policies required under this Agreement. In addition, the Contractor shall be responsible and shall not be reimbursed for any losses arising from any risk or exposure not insured as required herein, or not covered as a result of a normal policy exclusion or that falls within the self-insured retention, if Contractor is self-insured.

The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

The claim provisions in the Contractor's insurance policies must specifically state the insurance company or Contractor's Third Party Administrator, if self-insured, has both the right and duty to adjust a claim and provide defense.

The policies shall not contain any provision or definition which would serve to exclude or eliminate from coverage third party claims, including exclusions of claims for bodily or other injury to shareholders, partners, officers, directors, or employees of the insured, the premises owner, real estate manager, or the insured's Subcontractor, or any family relative of such persons.

If the policies contain any warranty stating that coverage is null and void (or words to that effect) if the Contractor does not comply with the most stringent regulations governing the Work, it shall be modified so that coverage shall be afforded in all cases except for the Contractor's willful or intentional noncompliance with applicable government regulations.

Any failure by any person to comply with reporting or other provisions of the policy including breach of warranties, shall not affect coverage provided to the Owner and its representatives, officials and employees.

The insolvency or bankruptcy of the Insured or of the Insured's estate shall not relieve the insurance companies of their obligations under these policies. Any clauses to the contrary are unacceptable and must be stricken.

Failure to comply with these requirements shall be a material breach of this Agreement justifying termination for default.

5.1.1 Workers' Compensation and Employers' Liability Insurance

The Contractor and the Subcontractors shall procure and maintain Workers' Compensation Insurance in the amount and type required by the State of North Carolina and federal law for all employees employed under the Agreement who may come within the protection of Workers' Compensation Laws and covering all operations under the Agreement whether performed by the Contractor or by his Subcontractors. In jurisdictions not providing complete Workers' Compensation protection, the Contractor and his Subcontractors shall maintain employers' liability insurance in an amount, form, company and agency satisfactory to the State of North Carolina and the Owner for the benefit of all employees not protected by Workers' Compensation Laws and covering all operations under the Agreement whether performed by the Contractor or by his Subcontractors.

The Contractor shall pay such assessments as will protect the Contractor and the Owner from claims under the Workers' Compensation Laws, workers' or workmen's compensation disability benefits, and other similar employee benefits acts. The current Experience Modification Factor shall be indicated on the Certificate of Insurance.

Coverage under this section shall be as required by federal and state Workers' Compensation and Occupational Disease Statutes, and shall have minimum limits as follows:

Coverage A:	Statutory, State of North Carolina
Employers' Liability: Each Accident	\$1,000,000
Disease-Policy Limit	\$1,000,000
Disease-Each Employee	\$1,000,000

Such insurance shall include Voluntary Compensation coverage, a Waiver of Subrogation in favor of the Owner as well as other endorsements that may be required by applicable jurisdictions, i.e. United States Longshoremen and Harbor Workers Act and maritime coverage (Jones Act).

5.1.2 Automobile Liability Insurance

The Contractor shall procure and maintain automobile insurance against liability for bodily injury and property damage as described below, that may arise with respect to the Work being performed under this Agreement, and as will provide protection from claims which may arise out of or result from the Contractor's performance of the Work and the Contractor's other obligations under the Agreement, whether such performance of the Work is by the Contractor, by any representative or Subcontractor, by anyone, both officially and personally, directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

This policy of insurance shall carry the following minimum limit of liability:

Combined Single Limit
\$1,000,000

The policy of insurance shall contain or be endorsed to include the following:

- a) Owned, hired and non-owned automobile liability.
- b) If the policy contains a warranty stating that coverage is null and void (or words to that effect) if the transporter does not comply with the most stringent regulations governing the Work, it shall be modified so that coverage shall be afforded in all cases except for the transporter's willful or intentional noncompliance with applicable government regulations.

Any failure by any party to comply with reporting or other provisions of this policy including breach of warranties, shall not affect coverage provided to the Owner and its representatives, officials and employees.

No subcontracting of waste hauling shall be permitted without prior, written approval of the Owner.

5.1.3 General Liability

This policy must be written on an Occurrence basis, with the following minimum Limits of Liability:

General Aggregate per project	\$2,000,000.00
Products/Completed Operations Aggregate	\$2,000,000.00
Bodily Injury and Property Damage csl/each occurrence	\$1,000,000.00
Personal Injury and Advertising Injury	\$2,000,000.00

The policy of insurance shall contain or be endorsed to include the following:

- a) Blanket Contractual Liability covering Contractor's indemnification obligations under this Agreement, in accordance with ISO policy form CG 00 01. Modifications to the standard provision will not be acceptable if they serve to reduce coverage.
- b) Premises/Operations Liability
- c) Explosion, collapse and underground fault
- d) Independent Contractors and Independent Subcontractors coverage
- e) Broad Form Property Damage
- f) Personal Injury
- g) Cross Liability/Severability of Interest Clause
- h) Employer's Stop-Gap Liability endorsement, if applicable
- i) Amendment of the Pollution Exclusion Endorsement to allow coverage for bodily injury or property damage caused by heat, smoke, or fumes from a hostile fire
- j) Designated General Aggregate Limit Endorsement if required by the Supplemental General Conditions.

Coverage shall remain continuously in effect and without interruption for at least 6 years from the date of the Notice of Award and shall include coverage for exposures arising from operations that have been completed. The Contractor shall furnish the Owner and each other additional insured listed in the Agreement to whom the Certificates have been issued, evidence satisfactory to the Owner of continuation of such insurance at the date of Preliminary Acceptance and each year thereafter.

5.1.4 Pollution Legal Liability (PLL)

Pollution Legal Liability coverage will be provided if required in any Supplementary General Conditions.

5.1.5 Umbrella Liability

The Contractor shall maintain an occurrence basis (as distinguished from a "claims made" basis) Umbrella Liability policy (true follow form) over the underlying General Liability, Automobile Liability and Employer's Liability with the following limits of liability:

Each Occurrence	\$3,000,000.00
Aggregate	\$3,000,000.00

On a fully insured basis such coverage will be subject to a deductible no greater than \$10,000.00 per occurrence where coverage is not provided by the underlying insurance, but is provided by the Umbrella Liability policy.

The Contractor may use any combination of primary and umbrella insurance policies to comply with the insurance requirements, provided the resulting insurance is equivalent to the insurance stated herein.

All Occupational Disease exclusions must be deleted. Any Pollution Exclusion must be amended to allow coverage for bodily injury or property damage caused by spill, upset, overturn, heat, smoke, or fumes from a hostile fire.

5.1.6 Property Insurance

The Contractor shall purchase All Risk Property Insurance on a Completed Value Form in the names of the Owner, Contractor, Subcontractors, and Sub-subcontractors as their interests may appear with limits as follows:

- a) Full insurance value of the Work; or
- b) Amount equal to the Contract Price for the Work whichever is higher.

The Contractor is responsible for all physical damage to owned or rented machinery, tools, equipment, forms and other items owned, rented or used by the Contractor and/or Subcontractor(s) in the performance of the Work. The insurance coverage evidencing such shall include a waiver of subrogation in favor of the Owner.

5.1.7 Valuable Papers and Records

The Contractor shall provide valuable papers and records insurance with coverage in an amount commensurate with project scope.

5.1.8 Claims

The Contractor shall notify the Owner within 24 hours of any claims or alleged claims received by the Contractor covered by any of the policies of insurance required in this Agreement. The Contractor shall provide a written copy of the claim or alleged claim to the Owner within 3 days of the Contractor's receipt of the claim or alleged claim. If a claim is settled to the satisfaction of the claimant, the Contractor shall submit a copy of the claimant's release to the Owner.

If a claim or alleged claim is rejected by the Contractor and/or its insurance company, the Contractor shall immediately report this fact to the Owner.

Should 30 days elapse after the claim or alleged claim has been received by the Contractor, and the Contractor is not able to report a settlement or rejection of the claim, it shall report to the Owner the steps being taken with respect to the claim.

Without limiting the foregoing, the Contractor shall notify in writing the County Risk Manager of any paid or incurred claims which may impair annual aggregate or general liability.

5.1.9 Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the Owner. At the option of the Owner, either: the insurer shall reduce to a maximum of \$250,000.00 or eliminate such deductibles or self-insured retentions with respect to the Owner, or the Contractor shall provide evidence of collateral provided to insurers or procure a bond guaranteeing payment of losses and related investigations, claim administration, and defense expenses within the deductible or self-insured retention amount. Any self-insured retention or deductible amount on the policy shall not reduce the amount of collectible limits or liability.

5.1.10 Subcontractors

The Contractor shall include all Subcontractors as insureds under its policies, or shall furnish separate certificates, policies and endorsements for each Subcontractor the Contractor intends to use. If a Subcontractor does not take out insurance in its own name and the Contractor wishes to provide insurance protection for such Subcontractor and such Subcontractor's employees, the Contractor shall either (a) procure appropriate policies in the name of the Subcontractor, or (b) cause a rider or riders to be attached to the Contractor's policies which shall identify the Subcontractor thereby covered; provided, however, in the case of the latter option, such a rider need not be attached to the Contractor's workers' compensation policy if such policy by its terms is sufficiently broad to cover the employees of all Subcontractors performing Work under the Contract Documents. Except as otherwise approved by the Owner in writing, Limits of Liability and coverage scope must be at a minimum as stringent as required of the Contractor by the Contract Documents. All Work performed for the Contractor by any Subcontractor shall be

pursuant to an appropriate agreement between the Contractor and the Subcontractor which shall contain provision that waive all rights the contracting parties may have against one another for damages caused by fire or other perils covered by insurance as provided herein.

- 5.2** Indemnification--The Contractor, to the fullest extent not expressly prohibited by law, shall defend, indemnify and save harmless the Owner, the Architect, the Construction Manager (if any), and their respective officials, officers, employees and agents from and against any and all liabilities (foreseeable or unforeseeable), penalties, fines, forfeitures, demands, claims, causes of actions, suits, judgments, and costs and expenses incidental thereto, (including, without limitation, amounts paid pursuant to investigations, defense or settlements, and reasonable attorneys' fees), which any or all of them may hereafter suffer, incur, be responsible for, or pay out as a result of but not limited to:
- a) Bodily injury (including sickness, disease or death) to any person including but not limited to, the Contractor's employees or its representatives while on the site of the Project; or
 - b) Actual or alleged damage (including loss of use) to any property (public or private, including the Project or any other property on the Project site); or
 - c) Contamination of or adverse effects on the environment arising directly or indirectly out of or in connection with the performance of the Work, including but not limited to any hazardous or toxic waste, substance, or constituent of any substance subject to regulation under CERCLA, RCRA, TSCA, and other Federal and state authorities that is spilled, released, threatening to release, or disposed of or destroyed by the Contractor or its Subcontractors on or off the site of the Project or while in transport to or from the site; or
 - d) Any violation or alleged violation of laws and regulations, arising out of or in any way connected with the Work, caused in whole or in part by the Contractor, any Subcontractor or supplier or any representatives of the Contractor. The Contractor shall not be required to indemnify the Owner against losses resulting from a breach of this Agreement by the Owner or its other agents and contractors, or resulting from negligence, misconduct or violation of laws on the part of the Owner or its other agents and contractors.

The Contractor further agrees to obtain, maintain and pay for such liability insurance coverages and endorsements as will insure the provisions of this paragraph. Furthermore, the Contractor agrees to be liable for and to indemnify and reimburse the Owner for all legal fees and disbursements paid or incurred to enforce the provisions of this paragraph. The indemnification obligations under this paragraph shall not be limited in any way by the amount or type of damages, compensation or benefits payable under workers' compensation acts, disability benefit acts, other employment benefit acts, or the amount of insurance carried or recovered.

The Owner acknowledges that hazardous or toxic waste, material, chemicals, compounds, or substances, or other environmental hazards, contamination or pollution (referred to hereinafter as "environmental hazards") may be present at the Project site that were not created, generated, or released at the Project site by the Contractor or its Subcontractors, agents or employees, acting alone or in concert with others. Unless the remediation, abatement or handling of such environmental hazards is part of the scope of the Work under this Agreement, then upon the discovery of such environmental hazards, the Contractor shall immediately, and in no event more than three (3) days later, give notice to the Owner of the environmental hazards before they are disturbed. The Owner and the Architect shall thereupon promptly investigate the environmental hazards, and make such changes in the Drawings and/or Specifications as they may find necessary to abate, remediate, isolate or handle the environmental hazards. Any increase or decrease in the Contract Price or the Contract Time resulting from such changes shall be adjusted in the manner provided for herein for adjustments as to extra and/or additional Work and

changes. It is agreed that the Contractors shall have no liability under this Agreement for any environmental hazards existing prior to the date that Work commences under this Agreement unless the Contractor or its Subcontractors, agents or employees, acting alone or in concert with others, by their own negligence or misconduct, release, or expose the Owner or third parties to the environmental hazards.

The provisions of this paragraph shall survive the termination or cancellation or completion of this Agreement.

ARTICLE 6. OTHER RECORD DOCUMENTS AND SUBMITTALS

6.1 The Contractor shall submit to the Architect all Submittals required by the Contract Documents. The Contractor shall submit three (3) reproducible prints of all shop drawings plus the number of copies sufficient for his requirements. The Contractor shall submit samples in quantities required by the Contract Documents. The Contractor shall submit product data in five (5) copies, plus the number of copies sufficient for the Contractor's requirements. All shop drawings shall be reviewed by the Contractor and shall bear the Contractor's stamp of approval before being forwarded to the Architect. Submittals shall be submitted in such time as to not cause delay to the Work or any part thereof and in accordance with the Contract Construction Schedule and Submittal Register. The Architect shall review the Submittal with reasonable promptness, noting desired corrections, if any. The Architect shall retain two (2) copies of the Submittal and shall return the balance of the reviewed Submittal to the Contractor for action. The Contractor shall furnish any corrected reviewed Submittal to the Architect. The Architect shall retain two (2) copies of the corrected Submittal and will return the balance of the reviewed submittal to the Contractor.

No substitutions will be accepted after the bids have been received.

The Contractor acknowledges that the processing of shop drawings and other Submittals is directly impacted by the clarity, completeness, and accuracy of said documents and that it is the Contractor's responsibility to (a) review and coordinate each Submittal with other related or affected Work and (b) approve each Submittal before submitting same to the Architect for approval.

6.2 No substitutions and no deviations from any requirement of the Contract Documents shall be deemed allowed unless the Contractor has specifically informed the Architect in writing of such deviations at the time of submittal and the Architect and the Owner have given written and specific approval to the substitutions or deviations. In proposing a deviation or substitution, the Contractor warrants to the Owner, notwithstanding any review, allowance or approval by the Architect or the Owner, that the deviation or substitution is at least equal to or better in quality and for the purpose intended, and that the Contractor shall not by reason of any such review, allowance or approval be relieved from any obligation or responsibility contained in the Contract Documents.

6.3 Review of submittals by the Architect shall not be construed as relieving the Contractor from responsibility for compliance with terms or designs of the Contract Documents nor from responsibility for errors of any sort in the submittal.

6.4 The Contractor shall keep one record copy marked "As-Built" of all Specifications, Drawings, Addenda, Modifications, and Submittals at the Project in good order and annotated at least monthly to show all changes made during the construction process. Such monthly annotations and their approval by the Architect shall be a condition precedent to approval by the Architect of each monthly Request for Payment. Said record copy shall be stored at the Project and fully protected from damage by fire or other hazard. This record copy shall be available to the Architect and the Owner for inspection at all

times, and shall be delivered to the Architect for the Owner's purposes prior to the Architect's certifying Substantial Completion of the Work.

- 6.5** At completion of the Project and before Final Payment, the Contractor shall assemble and deliver to the Owner one complete set of all as-built drawings and one complete set of all approved Submittals, product data, and samples which were reviewed by the Architect. These drawings and submittals shall be on paper, or in electronic or other media if required by the Supplementary Conditions. These drawings and submittals shall be categorized and packaged as directed by the Architect.

ARTICLE 7. CONTRACTOR

- 7.1** The Contractor shall supervise and direct the Work efficiently and with the Contractor's best skill and attention. Except as may be set forth specifically in the Contract Documents, the Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction, and for safety precautions and programs in connection with the Work. The Contractor shall be responsible to see that the finished Work complies accurately with the Contract Documents.
- 7.2** The Contractor shall appoint a competent Project Manager and shall keep on the Project at all times during the Work a competent Resident Superintendent and necessary assistants who shall not be replaced without prior written approval by the Owner except under extraordinary circumstances, in which event immediate written notice shall be given to the Owner. The Project Manager and the Resident Superintendent may be the same or different persons. At any time, the Owner, in its sole and absolute discretion, may require the Contractor to replace the Project Manager or Resident Superintendent with an experienced and competent person or persons upon seven (7) days written notice from the Owner to the Contractor. Such replacement shall be at the Contractor's expense and at no cost to the Owner.

Both the Project Manager and the Resident Superintendent shall have authority to act on behalf of the Contractor, and instructions, directions or notices given to either of them shall be as binding as if given to the Contractor.

- 7.3** The Contractor shall provide sufficient competent and suitably qualified personnel, equipment, and supplies to lay out the Work and perform construction as required by the Contract Documents. The Contractor will at all times maintain good discipline and order at the site, and will comply with all applicable OSHA standards.

Any person employed by the Contractor, by any Subcontractor, or by any Sub-subcontractor who, in the opinion of the Architect or the Owner, does not perform its Work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the Owner or Architect, be removed forthwith by the Contractor, Subcontractor, or Sub-subcontractor employing such person without cost to the Owner, and shall not be employed again in any portion of the Work without the prior written approval of the Owner or Architect.

Should the Contractor fail to remove such person or persons or fail to furnish suitable and sufficient personnel for the proper prosecution of the Work within three (3) days after written order, the Owner may withhold further payment by written notice until compliance with such order.

- 7.4** If, in the opinion of the Architect or the Owner, any Subcontractor on the Project is incompetent or otherwise unsatisfactory, such Subcontractor shall be replaced by the Contractor with no increase in the Contract Price if and when directed by the Architect or Owner in writing.

- 7.5** The Contractor shall furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools appliances, fuel, light, heat, and all other facilities and incidentals necessary for the execution, maintenance, initial operation, and completion of the Work, other than those specifically excluded by the Contract Documents and to be furnished by the Owner or others. When use or storage of hazardous materials or equipment or methods of more than ordinary risk are necessary in accomplishing the Work, the Contractor shall give the Owner and Architect reasonable advance notice.

If any materials are to be furnished or installed by the Owner or others under the terms of the Contract Documents, said materials shall be made available to the Contractor at the location(s) specified in the Contract Documents. All costs of handling, transportation from the specified location to the Project, storage, and installing of Owner-furnished materials shall be included in the Contract Price. The Contractor shall be responsible for any demurrage, damage, loss, or other deficiencies which may occur during the Contractor's handling, storage, or use of such Owner-furnished materials. The Owner shall deduct from any monies due or to become due the Contractor any cost incurred by the Owner in making good any such damage, loss, or deficiency.

All equipment which is proposed to be used in the Work shall be of sufficient size and in such mechanical condition as to meet the requirements of the Work and produce a satisfactory quality of work. Equipment used on any portion of the Work shall be such that no injury to previously completed Work, adjacent property, or existing facilities shall result from its use.

When the methods and equipment to be used by the Contractor accomplishing the Work are not prescribed in the Contract Documents, the Contractor shall be free to use any methods or equipment that will accomplish the Work in conformity with the requirements of the Contract Documents.

When the Contract Documents specify the use of certain methods and equipment, such methods and equipment shall be used unless others are authorized in writing by the Architect. If the Contractor desires to use a method or type of equipment other than that specified in the Contract Documents, the Contractor may request authority from the Architect to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed and of the reasons for desiring to make the change. If approval is given, it shall be on the condition that the Contractor shall be fully responsible for producing Work in conformity with the requirements of the Contract Documents. If, after trial use of the substituted methods or equipment, the Architect determines that the Work produced does not meet the requirements of the Contract Documents, the Contractor shall discontinue the use of the substitute method or equipment and shall complete the remaining Work with the specified methods and equipment at no additional cost to the Owner. The Contractor shall remove any deficient Work and replace it with Work of specified quality, or take such other corrective action as the Architect may direct. No change in the Contract Price or in Contract Time shall be made as a result of authorizing a change in methods or equipment under this paragraph.

- 7.6** All materials and equipment shall be new, except as otherwise provided in the Contract Documents. When special makes or grades of material which are normally packaged by the supplier or manufacturer are specified or approved, such materials shall be delivered to the Project site in their original packages or containers with seals unbroken and labels intact.

Materials shall be so stored as to assure the preservation of their quantity, quality and fitness for the Work. Stored materials, even though approved before storage, may again be inspected by the Architect or the Owner prior to their use in the Work and shall be required to meet the requirements of the Contract Documents at the time they are incorporated into the Work. Stored materials shall be located so as to facilitate their prompt inspection. The

Contractor shall coordinate the storage of all materials with the Architect and Owner. Materials to be stored at the Project or on the Owner's property shall not create an obstruction to the Owner's or other contractor's reasonable activities. Private property shall not be used for storage purposes without written approvals consistent with the provisions of paragraph 20.3 of these General Conditions. The Contractor shall make all arrangements and bear all expenses for the storage of materials on private property. Upon request, the Contractor shall furnish the Owner a copy of the property owner's permission. All storage sites on private or the Owner's property shall be restored to their original condition by the Contractor at its entire expense, except as otherwise agreed to (in writing) by the owner or lessee of the property.

- 7.7** All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, fabricator, or processor, except as otherwise provided in the Contract Documents.
- 7.8** The Contractor will be fully responsible for all acts and omissions of its Subcontractors and of persons directly or indirectly employed by them and of persons for whose acts any of them may be liable to the same extent that the Contractor is responsible for the acts and omissions of the Contractor's own employees. Nothing in the Contract Documents shall create any contractual relationship between any Subcontractor or supplier and the Owner or the Architect, or any obligation on the part of the Owner or the Architect to pay or see to the payment of any money due any such Subcontractor or material furnisher except as may otherwise be required by law. The Owner or the Architect may furnish to any Subcontractor or supplier, to the extent practicable, evidence of amounts paid to the Contractor on account of specific Work done.
- 7.9** The divisions and sections of the Specifications and the identifications of any Drawings shall not control the Contractor in dividing the Work among Subcontractors.
- 7.10** The Contractor agrees to bind specifically every Subcontractor to the terms and conditions of the Contract Documents for the benefit of the Owner and to furnish written evidence thereof to the Architect and the Owner within seven (7) days after written request by the Owner.
- 7.11** The Contractor shall attend job progress conferences and all other meetings or conferences as directed by the Architect. The Contractor shall be represented at these job progress conferences by a representative having the authority of the Project Manager and by such other representatives as the Architect may direct. Job progress conferences shall be open to Subcontractors, suppliers and any others who may contribute beneficially toward maintaining required job progress, and such personnel shall be encouraged by the Contractor to attend. It shall be the principal purpose of job progress conferences to effect coordination, cooperation and assistance in every practical way toward the end of maintaining progress of the Project on schedule and to complete the Work and the Project by the specified Completion Dates. The Contractor shall be prepared to assess progress of the Work as required in the Contract Documents and to recommend remedial measures for correction of progress as may be appropriate. The Architect shall preside as chairman and arrange for minutes to be taken and circulated.

In the event that the prosecution of the Work is discontinued for any reason, the Contractor shall notify the Architect and the Owner at least forty-eight (48) hours in advance of resuming operations.

Should the terms of the Contract Documents require completion of one or more portions of the Work for the Beneficial Occupancy of the Owner prior to completion of the entire Work, the Contractor shall complete such portion(s) of the Work on or before the date specified. Such completion shall include the obtaining of all government or other permits, permission, and/or approvals necessary to occupancy. The Contractor shall independently estimate the

difficulties involved in arranging the Work to permit such Beneficial Occupancy and shall not claim any additional compensation or time extension by reason of any delay or increased cost due to completing such portion(s) of the Work. The Owner's possession and use of such portion(s) of the Work shall not be deemed an acceptance of any Work not completed in accordance with the Contract Documents. The Owner shall be responsible for the security, maintenance, utilities, and insurance of all portions of the Work completed and beneficially occupied by the Owner.

- 7.12** The Contractor shall pay all license fees and royalties, and assume all costs incident to the use of any invention, design process, or device which is the subject of patent rights or copyrights held by others, except for inventions, design processes, or devices specified by the Architect in the Contract Documents. The Contractor shall indemnify and hold harmless the Owner, the Architect, and anyone directly employed by any of them, from and against all claims, damages, losses and expenses, including attorney's fees and costs of defense, arising out of any infringement or alleged infringement of such rights during or after completion of the Work, and shall defend all such claims in connection with any actual or alleged infringement of such rights.
- 7.13** The Contractor shall secure and pay for all permits, including without limitation construction permits and licenses, and will pay all governmental charges and inspection fees necessary for the prosecution of the Work.
- 7.14** The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations applicable to the Work and shall protect and indemnify the Owner, the Architect, and their respective officials, officers, agents, employees or servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor or by the Contractor's employees, Subcontractors, Sub-subcontractors, or their employees.
- 7.15** The Contractor shall be responsible for the entire site of the Project and for its reasonable and necessary protection and security as required by laws or ordinances governing such conditions, or by custom or sound construction practices, and shall share such responsibilities for protection of property at the site as may be directed by the Contract Documents and the Owner or Architect. The Contractor shall be responsible for any damage to the Owner's property, or that of others, by the Contractor or the Contractor's employees, Subcontractors, Sub-subcontractors, or their employees or agents, and shall make good such damages. The Contractor shall be responsible for and pay for any such claims made against the Owner.
- 7.16** The Contractor shall protect all landscaping designated to remain in the vicinity of the operations and barricade all walks, roads, and areas as necessary to keep the public away from the construction.
- 7.17** The Contractor shall provide cover and/or protect all portions of the Work and provide all materials necessary to protect the Work whether performed by the Contractor or any of the Subcontractors or Sub-subcontractors. Any Work damaged through the lack of proper protection, or from any other cause, shall be repaired or replaced without extra cost to the Owner or extension to the Contract Time.

The Contractor shall maintain the Work during construction and until the Work is accepted. This maintenance shall constitute continuous and effective effort prosecuted day by day, with adequate equipment and forces so that the Work is maintained in satisfactory condition at all times. All costs of maintenance shall be included in the Contract Price and the Contractor will not be paid an additional amount for such effort. Should the Owner or Architect observe that the Contractor at any time has failed to maintain the Work as provided herein, the Architect may immediately notify the Contractor of such non-compliance. Such notification shall specify a reasonable time within which the Contractor

shall be required to remedy such unsatisfactory maintenance condition. Should the Contractor fail to properly respond to the Architect's notification, the Owner may, at the Contractor's expense, take such action as it may deem appropriate to remedy the defective maintenance, including suspension of the Contractor's Work or any part thereof. Any such expense incurred by the Owner shall be deducted from monies due or to become due the Contractor.

Parking lots, streets, and walks connecting to the Project area shall at all times be protected by the Contractor from deposits of mud, sand, stone, litter, or debris in any form.

Pedestrian traffic areas around the construction limits must be maintained in a clean and safe condition at all times with required barricades. When excavation or other operations outside the Project limits is required, the Contractor shall, immediately following that work, return the area to its original condition.

All catch basins and storm drain lines in the vicinity of the Project site shall be protected at all times from entry of dirt, rubble and other debris. The residue from the cleaning of trucks, wheelbarrows, concrete buggies, etc. must be prevented from entering the drainage system, and if cleaning is done, the residue must be contained and removed from the Project site with other refuse.

7.18 No burning of refuse or debris shall be allowed inside or around the Project during the course of construction without prior written authority from authorities having jurisdiction and the Owner.

7.19 The Contractor shall provide for and maintain necessary safety measures and safety programs for the protection of its employees and other persons at the Project site, and shall comply at all times with the requirements of the most current edition of the CAGC Safety and Health Manual [or the AGC Accident Prevention Manual in Construction], or the equivalent requirements of the Contractor's safety program, and shall fully comply with all Federal, State, and local laws, rules, regulations, and building code requirements so as to prevent accidents or injuries to persons on or about the Project site. The Contractor shall clearly mark or post signs warning of existing hazards, and shall barricade excavations, elevator shafts, stairways, floor and wall openings and similar hazards. The Contractor shall protect against damage or injury resulting from falling materials, and shall maintain all protective devices and signs throughout the progress of the Work.

All trenches, excavations, or other hazards in the vicinity of the Work shall be well barricaded, and properly lighted at night. When Work requires closing of an area normally used by the Owner or the public, the Contractor shall furnish, erect, and maintain temporary barricades, and properly light the area. The Contractor shall comply with any directions and public authorities in this respect.

7.20 The Contractor shall adhere to the rules, regulations, and interpretations of the North Carolina Department of Labor's Occupational Safety and Health Standards for the Construction Industry (29 CFR Part 1926 as adopted in 13 NCAC 07F.0201, including 29 CFR Part 1910 General Industry Safety and Health Standards applicable to construction) and N.C. Gen. Stat. §95-126 through 155 (Occupational Safety and Health) as well as all revisions and amendments to such standards or statutes as may occur throughout the performance of the Work.

7.21 Any land-disturbing activity performed by the Contractor in connection with the Project shall comply with all erosion control measures set forth in the Contract Documents and any additional measures which may be required in order to ensure that the Project is in full compliance with the Sedimentation Pollution Control Act of 1973, as implemented by Title 15 North Carolina Administrative Code, Chapter 4, Sedimentation Control, Subchapters 4A, 4B and 4C, as amended (15 NCAC 4A, 4B, and 4C), and as may be revised or

amended in the future. Upon receipt of notice that a land-disturbing activity is in violation of said Act, the Contractor shall be responsible for ensuring that all steps or actions necessary to bring the Project in compliance with said Act are promptly taken. The Contractor shall be responsible for all penalties assessed pursuant to N.C. Gen. Stat. 113A-64 with respect to its Work, and shall indemnify and hold harmless the Owner from all costs and expenses, including attorney's fees and costs of defense, arising out of or related to the enforcement of the Act against any party or person described in this Article.

- 7.22** The Contractor shall designate a responsible officer or employee as safety inspector, whose duties shall include accident prevention on the Project as well as implementation of the Contractor's safety measures and safety programs on the Project. The name of the safety inspector shall be made known to the Architect and the Owner at the pre-construction conference.
- 7.23** In emergencies affecting the safety of persons, the Work, or property at the Project site or adjacent thereto, the Contractor is obligated to act in the Contractor's discretion to prevent threatened damage, injury, or loss. As soon as practicable, the Contractor shall notify the Architect and the Owner of such emergency. The Contractor shall give the Architect and the Owner prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused by such emergency. If the Contractor believes that additional work done in an emergency entitles the Contractor to an increase in the Contract Price or an extension of the Contract Time, the Contractor may make a claim therefore as provided in Articles 14 and/or 15 of these General Conditions.
- 7.24** The Contractor shall at all times keep the premises free from accumulation of waste materials or rubbish caused by the Work. At least weekly and at the completion of the Work, the Contractor shall remove all waste materials and rubbish attributable to the Contractor's Work from and about the Project. At the completion of the Work, the Contractor shall remove all tools, construction equipment, machinery, and surplus materials. The Contractor shall leave the Work in condition for occupancy by the Owner such that no cleaning or other operations are required. Material cleared from the Project and deposited on adjacent property shall not be considered as having been disposed of satisfactorily. If the Contractor fails to keep the Project clean and free of waste materials or rubbish, fails to satisfactorily clean-up weekly or at the completion of the Work, the Owner may do so and the costs thereof may be deducted from any amounts due or to become due the Contractor.
- 7.25** Utilities, temporary facilities, and signs shall be provided as described in the Contract Documents. Absent a contrary direction in any Supplementary Conditions, the Contractor shall pay all bills for its consumption of water, electricity, or other public utility service to the Project site.
- 7.26** The Contractor shall indemnify and hold the Owner, the Architect, the Architect's consultants, and their respective officers, agents, and employees harmless against all costs, damages, and expenses, including attorney's fees and costs of defense, arising out of claims by any separate contractor or by any Subcontractor, Sub-subcontractor, or supplier engaged by or employed by the Contractor or employed by any of the Subcontractors claiming through him, including without limitation damages, losses, and expenses arising out of or relating to any inconvenience, delay, interference, or other action or non-action of the Contractor or the Contractor's Subcontractors on the Project.

The Contractor acknowledges that should the Contractor or any of the Contractor's Subcontractors be damaged by any breach of contract by any other separate contractor on the Project, the Contractor may invoke applicable dispute resolution procedures with said other contractor or bring a direct civil action against said other contractor. The Contractor hereby expressly agrees that neither the Owner nor its officers, agents, or employees shall have any liability of any kind or nature whatsoever to the Contractor, its Subcontractors,

Sub-subcontractors, or suppliers arising out of or relating to any breach, inconvenience, delay, interference, or other action or non-action by any other separate contractor. The Contractor covenants not to sue the Owner for any loss or damage caused by an breach, inconvenience, delay, interference or other action or non-action by any other separate contractor, notwithstanding whatever rights at law the Contractor might have to bring a civil action against the Owner for any breach, inconvenience, delay, interference, or other action or non-action by any other separate contractor. The Contractor agrees to look exclusively to the other contractor for relief or remedy.

Nothing contained herein or appearing anywhere in the Contract Documents shall obligate or require the Owner to exercise any right or privilege, or to take any action or to refrain from taking any action under any contract it may have with any other contractor or party to the Project for the benefit of the Contractor or any Subcontractor, sub-subcontractor or supplier claiming through the Contractor.

7.27 Prior to completion of the Work and Final Payment of the Contract Price, excepting only those portions of the Work deemed accepted in accordance with the Contract Documents, the Contractor shall have charge and care of the Work, and shall take every precaution against injury or damage to any party due to the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the Work. The Contractor shall, as required by the Owner, replace, rebuild, repair, restore, and make good all injury or damage to any portion of the Work occasioned by any of the above causes before Final Completion and shall bear the expenses thereof.

7.28 In the event that the Work, or any portion thereof, is suspended at any time pursuant to an order of the Owner, the Contractor shall obey all instructions of the Owner regarding storage of materials, drainage, protection of the Work, and erection of temporary structures during the suspension period.

7.29 The Contractor shall be responsible for the coordination of itself and any Subcontractors or Sub-subcontractors, both as to space and time. The Contractor shall coordinate the Contractor's Construction Schedule and all construction activities. The Contractor shall also coordinate close-out of the Project, including but not limited to all testing, inspection, certifications, and approvals required by public agencies.

The Contractor shall notify the Architect and the Owner promptly of any event or condition which could affect the conduct or progress of the Work and shall cooperate fully with all other separate contractors on the Project site.

7.30 The Owner hereby delegates to the Contractor all of its duties to coordinate and to expedite the Work not expressly reserved to the Owner by other provisions of the Contract Documents.

7.31 All Work performed pursuant to the Contract Documents shall conform in all respects to the North Carolina State Building Code and all other state, local, and national codes in effect at the time of and applicable to this Work.

7.32 Any mechanical or electrical work such as sleeves, inserts, chases, etc. located in the Work of the Contractor for general work shall be built in by the Contractor. Any Subcontractors used for this work shall operate under the supervision of the Contractor

7.33 The Contractor shall be responsible for permanently fixed service facilities and systems in use during progress of the Work and shall strictly adhere to the following procedures:

- a) Prior to acceptance of the Work by the Owner, the Contractor shall remove and replace any part of the permanent building systems damaged through use during construction.

- b) Temporary filters shall be installed in each of the heating and air conditioning units, return air grilles, and other locations to prevent intrusion of dust, dirt, and debris during construction. Temporary filters shall be removed and replaced with new filters immediately prior to Substantial Completion.
- c) When the permanent lighting system is used during construction, lamps shall be replaced and shall be new on the date of Substantial Completion.

ARTICLE 8. OWNER

- 8.1** The Owner shall issue communications and notices to the Contractor through the Architect to the extent contemplated by the Contract Documents.
- 8.2** In case of termination of the employment of the Architect, the Owner shall appoint as Architect a qualified person who shall have and assume all rights and duties held by the original Architect.
- 8.3** The Owner shall have the right to take possession of and use any portion of the Work notwithstanding the fact that the time for completion of such portion of the Work may not have expired, but such taking possession and use shall not be deemed an acceptance of any Work not completed in accordance with the Contract Documents.
- 8.4** A waiver on the part of the Owner of any breach of any part of the Agreement by the Contractor shall not be held to be a waiver of any other or subsequent breach.
- 8.5** The Owner shall pay all permanent acreage fees, governmental impact fees, and meter deposits for permanent utilities.

ARTICLE 9. CONSTRUCTION MANAGER

- 9.1** The Owner may employ one or more Construction Managers for the purpose of assisting the Owner, the Architect, and the Contractor in developing and administering budgets and cost controls, in evaluating constructability and value engineering proposals, in establishing and maintaining a critical path method (CPM) schedule, in coordinating and/or expediting the Work with other projects being constructed by the Owner or others adjacent or near the Work, or for such other purposes as the Owner may deem appropriate. From time to time, the Owner may identify such Construction Manager(s) to the Contractor in writing identifying any tasks assigned to such Construction Manager(s).

ARTICLE 10. ARCHITECT

- 10.1** The Architect is charged with responsibility for preparation and interpretation of the Contract Documents. The Architect's decisions relating to aesthetic matters shall be final.
- 10.2** All Work completed under the Contract Documents shall be subject to review by the Architect. No Work is to be covered without the Architect's review or prior authorization. Any Work so covered without the Architect's review or prior authorization shall be uncovered at the Contractor's expense. The Contractor shall notify the Architect in writing at least twenty-four (24) hours in advance of covering any Work.
- 10.3** The Architect shall not be responsible for the construction means, methods, techniques, sequences, procedures, or the safety precautions and programs incident thereto, and shall not be responsible for the Contractor's failure to perform the Work in accordance with the Contract Documents, but shall be entitled to enforce any requirements in the Contract Documents specifying particular means, methods, techniques, sequences, or procedures.

- 10.4** The Architect shall be an Owner's agent during the construction period. The duties, responsibilities and authority of the Architect as the Owner's representative during construction are as set forth in the Contract Documents.

ARTICLE 11. TESTING AND SURVEYING

- 11.1** Laboratory and field tests to determine compliance of construction with the Contract Documents shall be made by the Owner or testing consultants employed by the Owner except those required elsewhere in the Contract Documents to be paid for by the Contractor. The costs and expenses of providing samples for and assistance in any testing shall be borne by the Contractor and are included in the Contract Price. Any Work in which untested materials are used without approval or written permission of the Architect shall be removed and replaced at the Contractor's expense. Work found to be unacceptable or unauthorized will not be paid for and, if directed by the Architect, shall be removed and replaced at the Contractor's expense. Unless otherwise designated, tests in accordance with the cited standard methods of ASTM or other generally recognized or specifically authorized methods which are current on the date of advertisement for bids shall be made at the expense of the Owner; provided, however, in the event that after such testing any Work is found to be defective or does not meet the requirements of the Contract Documents, the costs of retesting such Work and the costs of inspection services shall be paid by the Contractor. Samples shall be taken by a testing laboratory employed by the Owner. All materials being used are subject to inspection, tests, or rejection at any time prior to or during incorporation into the Work. Copies of all Owner test reports will be furnished to the Contractor at its written request. Copies of Contractor test reports shall be furnished to the Architect upon written request.
- 11.2** The Owner shall have the right to deduct the costs of additional testing as described in paragraph 11.1 from any money due or to become due the Contractor; or if no money is due the Contractor, the Owner shall have the right to recover these costs from the Contractor, from its sureties, or from both.
- 11.3** All layouts and surveying shall be accomplished by properly qualified personnel duly licensed in the State of North Carolina.

ARTICLE 12. SEPARATE CONTRACTS

- 12.1** It is expressly understood that the Owner may deploy its own employees or engage other separate contractors to perform Work as a part of the Project whose work will be performed simultaneously and sequentially with the performance of the Work by the Contractor. It shall be necessary for the Contractor to coordinate construction activities with such other contractors, particularly with respect to access to work areas, storage of materials, and use of elevators and other common facilities. The Contractor shall diligently and in good faith cooperate with the Owner, the Architect, and all other contractors with respect to such matters and shall regularly and faithfully attend any and all meetings called by the Owner or Architect with respect to such matters. Any disputes between the Contractor and any other separate contractor with respect to such matters shall be resolved in accordance with the claim and dispute resolution procedures in the Agreement.

ARTICLE 13. CONTRACT TIME

- 13.1** Within fourteen (14) days after initial receipt of the Agreement by the Contractor for signatures, the Contractor shall prepare and submit to the Architect and the Owner for review and approval a preliminary Contractor's Construction Schedule for the Work pursuant to the requirements stated in the Contract Documents.
- 13.2** Within fourteen (14) days after initial receipt of the Agreement by the Contractor for signatures, the Contractor shall submit to the Architect a Submittal Register listing all

Submittals the Contractor is required to make or proposes to make under the Contract Documents, the dates on which the Contractor proposes to make such Submittals and the dates by which the Contractor reasonably requires a response from the Architect with respect to each Submittal. The dates submitted shall be incorporated into the Contractor's Construction Schedule as Completion Dates when they have been approved or modified by the Owner. The Architect shall not be required to review any Submittal from the Contractor until a Submittal Register acceptable to and approved by the Owner has been submitted by the Contractor.

- 13.3** Not later than thirty (30) days following execution and delivery of the Agreement by the Owner to the Contractor, the Owner shall deliver to the Contractor a Notice to Proceed. The Notice to Proceed shall state a commencement date on which it is expected that the Contractor will begin the Work to be performed under the Agreement. The Contract Time shall be measured from said specified commencement date. The commencement date stated in the Notice to Proceed shall not be earlier than three (3) days after the Notice to Proceed is served on the Contractor.

If, other than by mutual agreement, said specified commencement date is more than thirty (30) days after the date of execution and delivery of the Agreement from the Owner to the Contractor and the Contractor believes said delay justifies an increase in Contract Price and/or an extension of Contract Time, the Contractor may make a claim therefore as provided in Article 14 and/or Article 15 of these General Conditions.

No Work shall be done prior to the date specified in the Notice to Proceed.

The Contractor shall submit a final Contractor's Construction Schedule for approval by the Architect and Owner no later than fourteen (14) days after issuance of the Notice to Proceed. No payments shall be due the Contractor until this schedule is approved by the Architect and Owner.

- 13.4** The Contract Construction Schedule is a Contract Document. The Contractor represents that the Contract Construction Schedule has been reviewed in detail, that the Contractor participated in its preparation, that all of the activities which impact, limit, or otherwise affect the time of completion of the Work are shown in the Contract Construction Schedule and that all of the activities of others which impact, limit, or otherwise affect the start, duration, or completion of the Contractor's activities are also shown. The Contractor further represents that the Contractor can and will complete each activity within the time shown for that activity. Time is of the essence with respect to each such activity and Completion Date.
- 13.5** If the Contractor submits a construction schedule, progress report, or any other document that indicates or otherwise expresses an intention to achieve completion of the Work prior to any Completion Date required by the Contract Documents or prior to expiration of the Contract Time, no liability of the Owner to the Contractor for any failure of the Contractor to so complete the Work shall be created or implied.
- 13.6** If the Contractor, for reasons beyond the Contractor's control, is delayed in beginning any activity, the Contractor shall, nevertheless, have the same number of days as is shown in the Contract Construction Schedule for the activity, and the affected activity and any succeeding activity that is dependent upon that activity shall be adjusted accordingly; provided that at any time the Owner, by means of a Change Order, may require the Contractor to work overtime, to increase labor forces or to take any necessary or appropriate action to decrease the time required for any activity, and the Contractor shall be entitled to an adjustment in the Contract Price computed in accordance with Article 15 of these General Conditions.

- 13.7** At any time, the Owner may order the Contractor, on seven (7) days written notice, to begin any activity earlier than the starting date shown on the Contract Construction Schedule.
- 13.8** Should the Contractor fail to start any activity on the start date shown in the Contract Construction Schedule or as it may have been adjusted in accordance with paragraphs 13.6 or 13.7 above, or become delayed, the Contractor shall, without being entitled to any increase in the Contract Price or other compensation, work overtime, increase labor forces or take such other action as may be necessary or appropriate to complete the activity by the Completion Date shown on the Contract Construction Schedule, or as such Completion Date may have been adjusted.
- 13.9** The Architect and the Owner shall monitor progress of the Work at all times and the Contractor shall cooperate with such monitoring and provide any and all information with respect to the progress of the Work and scheduling as the Architect or the Owner may reasonably require.
- 13.10** On a monthly basis, the Contractor shall revise the Contract Construction Schedule, showing any adjustments made in accordance with paragraphs 13.6 or 13.7, above, by any Change Order, the progress of the Work, and any days gained or days lost with respect to any activity, and shall furnish copies thereof to the Architect and the Owner.
- 13.11** Should any monthly revision of any Contract Construction Schedule show that the Contractor is behind on any activity, the late completion of which could delay Substantial Completion of the Work, the Owner shall be entitled to withhold from the next Progress Payment due the Contractor an amount not exceeding the amount the Owner would be entitled to in Liquidated Damages, should Substantial Completion be delayed the same number of days that the Contractor is currently behind schedule. If, subsequently, the Contractor's progress, as shown by any succeeding monthly revision to the Contract Construction Schedule, is such that the anticipated delay no longer exists, the Owner shall pay with the Progress Payment next due to the Contractor such amounts as have been withheld in accordance with this paragraph.
- 13.12** The Owner shall have the right to perform Work, hire and employ labor and craftsmen, rent equipment, subcontract with other parties, or do anything that the Owner deems necessary or appropriate to remedy or cure any delay by the Contractor in the progress of the Work. Such action by the Owner shall not, in any way, affect, void or limit any warranty, guaranty or other responsibility of the Contractor under the Contract Documents. Such action may be taken by the Owner only after three (3) days written notice to the Contractor. All costs incurred by the Owner in taking any such action shall be charged to the Contractor and deducted from any amounts remaining due under the Agreement.
- 13.13** The Contractor may be entitled to an extension of the Contract Time (but no increase in the Contract Price) for delays arising from unforeseen causes beyond the control and without the fault or negligence of the Owner, the Architect, the Contractor or the Contractor's Subcontractors as follows:
- a) Labor disputes and strikes that directly impact the critical path activities of the Contract Construction Schedule;
 - b) Acts of God, tornado, fire, hurricane, blizzard, earthquake, typhoon, or flood that damage completed Work or stored materials.
 - c) Acts of the public enemy; acts of the State, Federal, or local government in their sovereign capacities.
 - d) Abnormal inclement weather as defined in Article 13.14.

- 13.14** On any day that the Contractor considers that the Project is delayed by adverse weather conditions, the Contractor shall identify in writing to the Architect the adverse weather conditions affecting each activity, the specific nature of the activity affected, the number of hours lost, and the number of and identity (by responsibility or trade) of workers affected and shall obtain from the Architect written recognition of the delay. The time for performance of this Contract includes an allowance for a number of calendar days which may not be suitable for construction Work by reason of adverse weather. The Contract Time will be extended only if the number of calendar days of adverse weather recognized by the Architect exceeds the number of inclement weather days set forth below, and the Contractor demonstrates how this adverse weather impacts activities on the critical path of the Contract Construction Schedule. The Contract Time may also be extended for weather reasons if excessive rain necessitates the need for a delay to allow for drying; the determination of the need for and the number of drying days will be made by the Project's geotechnical/soils testing company.

<u>Month</u>	<u>Number of Days</u>
January	10
February	9
March	10
April	9
May	10
June	10
July	11
August	10
September	7
October	7
November	8
December	9

- 13.15** If the Contractor believes that the progress of the Work has been adversely affected by adverse weather recognized by the Architect during a particular month, the Contractor shall submit a written request for extension of time to the Architect. Such a request for time extension of the Contract Time shall be submitted by the tenth (10th) day of the month following that month in which the adverse weather is encountered. The request shall include, but is not limited to, the following information:
- Detailed description of weather's effect on scheduled activities and its net effect on the critical path of the Project, and
 - Weather records from the official weather station nearest the Project site and records of actual observation as contained in daily reports, correspondence, or other documentation.
- 13.16** The Contractor specifically recognizes that a delay by the Contractor in achieving any Completion Date can have the effect of delaying the Substantial Completion of the Project. Such delay in achieving Substantial Completion of the Project will necessarily cause damages, losses, and expenses to the Owner, including, but not limited to and by way of illustration only, liquidated damages payable to the Owner, damages payable to other contractors, increased and extended Project overhead, increased fees, increased costs of construction, increased and extended operation costs of other facilities, and inefficiency and loss of productivity. Such damages, losses, and expenses may be recovered from the Contractor and, if the Contractor is bonded, its surety.
- 13.17** The sum for liquidated damages payable to the Owner is the amount stipulated in the Contract and reasonably estimated in advance to cover the losses to be incurred by the Owner by reason of failure of the Contractor(s) to complete the Project within the time

specified in the Contract, such time being in the essence of this Agreement and a material consideration thereof.

ARTICLE 14. CHANGES IN THE WORK

- 14.1** Without invalidating the Contract Documents, the Owner may, at any time, or from time to time order additions, deletions, or revisions in the Work. Said additions, deletions, or revisions shall be authorized only by written Change Orders, Construction Change Directives or Field Orders. Upon receipt of a Change Order, Construction Change Directive or Field Order, the Contractor shall proceed with the Work involved. All such Work shall be executed under the applicable conditions of the Contract Documents. If any change causes an increase or decrease in the Contract Price and/or an extension or shortening of the Contract Time, adjustments shall be made as provided in Article 14 and/or Article 15 of these General Conditions.

In order to expedite the Work and avoid or minimize delay in the Work that might affect the Contract Price or Contract Time, the Architect may issue a Change Order in the form of a Construction Change Directive which when signed by the Owner and Architect, directs the Contractor to proceed promptly with the Work involved. Any claim for an adjustment in Contract Price or Time, if not defined in the Construction Change Directive, shall be promptly made in writing according to the procedures defined in Article 15.2.

- 14.2** If possible, Work shall not begin on any change or alteration to the Work until a written Change Order is executed settling any change in the Contract Price or Contract Time. In the event the Contractor and the Architect and Owner cannot agree that an adjustment to the Contract Price or the Contract Time is warranted, or cannot agree on the appropriate adjustment to the Contract Price or the Contract Time, in order to expedite the Work and avoid or minimize delay in the Work that might affect the Contract Price or Contract Time, the Contractor shall, if so directed by the Architect in writing, nevertheless proceed with the Work, and any adjustment to the Contract Price or Contract Time shall be negotiated by the parties at a later date, utilizing the dispute resolution procedures under this Agreement if necessary. Any claim for an adjustment in Contract Price or Contract Time, if not defined in the Construction Change Directive, shall be promptly made in writing in accordance with the procedures defined in Article 15.2 of these General Conditions.
- 14.3** The Architect may authorize minor changes or alterations in the Work not involving change in the Contract Price or in the Contract Time and not inconsistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order. Such alterations shall not invalidate the Contract Documents nor release the surety. If the Contractor believes that any minor change or alteration authorized by the Architect entitles the Contractor to an increase in the Contract Price and/or an extension of Contract Time, the Contractor may make a claim therefore as provided in Article 14 and/or Article 15 of these General Conditions.
- 14.4** Except in an emergency endangering life or property, no change shall be made by the Contractor except upon prior written Change Order, Construction Change Directive or Field Order authorizing such change.
- 14.5** Increases in the Contract Price and/or extensions of the Contract Time for additional Work performed by the Contractor shall only be in accordance with a written Change Order or Construction Change Directive signed by the Owner and the Architect. The Contractor shall not be entitled to additional time or to additional compensation for any Work performed or material supplied which is claimed to have been authorized or settled by an "oral" change, or by a "constructive" or "implied" change, or by a course of conduct, or by any action or non-action by the Owner or Architect, or any other persons, or by any means whatsoever other than by a written Change Order or Construction Change Directive for such Work or material signed by the Owner and Architect.

- 14.6** Changes in the Work resulting from emergency shall not invalidate the Contract Documents nor release the surety.
- 14.7** Neither the Owner nor the Architect shall be responsible for verbal instructions which have not been confirmed in writing, and in no case shall such instructions be interpreted as permitting a departure from the Contract Documents unless such instruction is confirmed in writing and supported by a proper Change Order, Construction Change Directive or Field Order, whether or not the cost is affected.
- 14.8** The Owner, in its sole discretion, may require that the Contractor notify the Contractor's sureties of any changes affecting the general scope of the Work or change in the Contract Price, and that the amount of applicable bonds shall be adjusted accordingly. If this requirement is exercised, the Contractor shall furnish proof of such adjustment to the Owner.

If this requirement is exercised, the Change Orders and Construction Change Directives shall require written consent of the Contractor's surety. At the time of signing a Change Order, the Contractor shall be required to certify as follows:

"I certify that all sureties have been notified that my contract has been altered by the amount of this Change Order or Construction Change Directive and that a copy of the approved Change Order or Construction Change Directive will be mailed to all sureties upon its receipt by me."

If this requirement is exercised, no payment to the Contractor on account of any Change Order or Construction Change Directive shall become due or payable until written evidence of the surety's consent to the Change Order or Construction Change Directive has been furnished to the Owner and Architect, and the furnishing of such written consent is a condition precedent to such payment.

- 14.9** The Contractor shall support all requests for Change Orders with a detailed cost breakdown showing cost of materials, labor, equipment, transportation, other items, Contractor's overhead and profit, and total cost, in accordance with methods defined in this Article, and, if the request seeks an extension of the Contract Time, with a time-related diagram which demonstrates specifically why an increase in construction time is needed.
- 14.10** When a request for a Change Order involves a Subcontractor, the Contractor shall provide quotation from same on Subcontractor's letterhead. The Subcontractor's quote shall list materials, equipment, and labor separately, and show overhead and profit in the manner provided in paragraph 14.9.

ARTICLE 15. CHANGE OF THE CONTRACT PRICE

- 15.1** The Contract Price constitutes the total compensation payable to the Contractor for performing all Work under the Contract Documents. All duties, responsibilities, and obligations assigned to or undertaken by the Contractor shall be at its expense without change in the Contract Price. The Contract Price may only be changed by a Change Order.
- 15.2** Any claim for an adjustment in the Contract Price shall be in writing. Written notice of any event, action, or non-action which may become the basis of a claim shall be delivered to the Owner and the Architect within three (3) days of the occurrence, or the beginning of the occurrence, of any such event, action or non-action giving rise to the claim. Such written notice is a condition precedent to the making of a claim, and such notice shall describe the basis of the potential claim with reasonable detail and clarity.

A claim shall be made in writing and shall be delivered to the Owner and Architect no later than fourteen (14) days after such notice. The claim shall describe in detail the basis for the claim, with specific reference to any provisions of the Contract Documents, by paragraph, drawing number, or other specific identification, and shall state the amount claimed and how it is calculated. If the Contractor, at the time the claim is made, is unable to state the amount claimed with accuracy, the Contractor shall so state and provide the estimated amount and the basis on which the amount is to be calculated. At the earliest date practicable, but in no event more than thirty (30) days after Contractor's notice of claim, the Contractor shall supplement the claim with an accurate statement of the amount claimed and how it has been calculated. The Contractor shall provide, in writing, in support of the claim all such explanations, arguments, data, receipts, expert opinions, or other documents or information as the Contractor deems appropriate to be considered in support of the claim. A claim may properly be rejected by the Owner or Architect by reason of the Contractor's failure to submit adequate or accurate documentation or information, except that within seven (7) days after being given notice that the claim has been rejected on this basis, the Contractor may submit additional documentation or information. No claim for a change of the Contract Price shall be considered or granted (except solely at the discretion of the Owner) unless a claim is so made, nor shall the Contractor be entitled to any increase in the Contract Price unless the Contractor has given notice and made such a written claim within the times required. The Owner shall decide, after obtaining the advice of the Architect, whether an increase in Contract Price is warranted, and the amount of such increase shall be determined as provided in paragraphs 15.3 through 15.4, below. Any change in the Contract Price resulting from any such claim shall be incorporated in a Change Order.

The Owner shall advise the Contractor of its decision with respect to the claim within fourteen (14) days of its receipt, or of the receipt of additional documentation or information if the absence of such has previously been the basis of rejection of the claim; provided, however, that if, in its sole discretion, the Owner deems that review or consideration of any part of the claim or any matter related thereto by its governing Board is necessary or appropriate, it shall so advise the Contractor and shall provide its decision to the Contractor within seven (7) days after such Board consideration, review or action. Any claim on which the Owner has not provided its decision to the Contractor within the applicable time period shall be deemed denied.

If the Contractor is not satisfied with the decision of the Owner, the Contractor may within seven (7) days of receipt of the Owner's decision initiate the mediation process as described in Appendix A to these General Conditions.

15.3 In determining the amount of a Contract Price adjustment, the parties shall apply the following methods, as appropriate:

- a) Change in Work: The Owner and the Contractor shall negotiate in good faith and attempt to agree upon the value of any change (extra or decrease) in Work prior to the issuance of a Change Order covering said Work. Such Change Order shall set forth the corresponding adjustment to the Contract Price. In the event the Owner and the Contractor are unable to agree, the Owner shall grant an equitable adjustment in the Contract Price.
- b) Emergency Work: In the event of emergency endangering life or property, the Contractor may be directed by the Architect to proceed on a time and material basis, whereupon the Contractor shall so proceed and keep accurately, in such form as may be required by the Architect, a correct account of costs together with all proper invoices, payrolls, and supporting data therefore.

15.4 Where the Contract Price is to be adjusted, the following limitations shall apply in determining the amount of adjustment:

- a) In the case of extra or emergency work, the Contract Price shall not be increased by more than the reasonable, actual, and documented net cost of the extra or emergency work plus ten percent (10%) of such net cost on Work performed by the Contractor and five percent (5%) thereof on any subcontracted Work for overhead and profit combined.
- b) In the case of a decrease in Work, the Contract Price shall not be decreased by less than the net cost of the deleted Work plus five percent (5%) of such direct net cost for profit and overhead.

The term 'net cost' as used herein shall include, as applicable, and shall be limited to, all direct labor, direct material, direct equipment, labor burden, sales taxes, shipping and handling charges, permits and fees, and insurance and bond premium adjustments, if any, attributable to the change. All other items of cost shall be considered as overhead and covered by the percentages allowed in sections (a) and (b) of this paragraph.

The Contractor shall provide worksheets or tabulations describing the method by which the direct net cost was calculated, and shall provide all data needed to support the calculation of the direct net cost, all in a form acceptable to the Owner.

- 15.5** Where the Contract Price is to be adjusted by negotiation, the Owner may authorize and designate the Architect to negotiate with the Contractor on behalf of the Owner; provided, however, any agreement reached between the Contractor and Architect shall be subject to approval by the Owner.

ARTICLE 16. UNFORESEEN CONDITIONS

- 16.1** Should the Contractor encounter unforeseen conditions at the Project site materially differing from those shown on the Drawings or indicated in the Specifications or differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Agreement, the Contractor shall immediately, and in no event more than three (3) days later, give notice to the Owner and the Architect of such conditions before they are disturbed. The Owner and the Architect shall thereupon promptly investigate the conditions and if they find that they materially differ from those shown on the Drawings or indicated in the Specifications, they shall at once make such changes in the Drawings and/or Specifications as they may find necessary. Any increase or decrease in the Contract Price resulting from such changes shall be adjusted in the manner provided herein for adjustments as to extra and/or additional Work and changes. Neither the Owner nor the Architect shall be liable or responsible for additional work, costs, or changes to the Work that could have been reasonably determined from any reports, surveys, and analyses made available for the Contractor's review or that could have been discovered by the Contractor through the performance of its obligations pursuant to the Contract Documents.

ARTICLE 17. CORRECTION OF WORK BEFORE FINAL PAYMENT

- 17.1** The Owner has the authority to stop or suspend Work, and the Architect has the authority to order Work removed or to order corrections of defective Work or Work not in compliance with the Contract Documents where such action may be necessary to ensure successful completion of the Work.

Any work, materials, fabricated items, or other parts of the Work which have been found by the Owner or the Architect to be defective or not in accordance with the Contract Documents shall be condemned and shall be removed from the Project by the Contractor, and immediately replaced by new Work in accordance with the Contract Documents at no additional cost to the Owner. Work or property of the Owner or others damaged or

destroyed by virtue of such condemned Work shall be made good at the expense of the Contractor.

Correction of condemned Work described above shall be commenced by the Contractor within twenty-four (24) hours after notice from the Architect or Owner and shall be pursued to completion. Should the Contractor fail to proceed reasonably with the above-mentioned corrections, the Owner may, three (3) days after the notice specified in the preceding sentence, proceed with correction, paying the cost, including costs of uncovering such condemned Work, of such corrections from amounts due or to become due to the Contractor.

Condemned Work removed shall be the property of the Contractor and shall be removed from the Project by the Contractor within ten (10) days after notice to remove it, and if not then removed, thereafter may be disposed of by the Owner without compensation to the Contractor and the cost of such disposal shall be deducted from amounts due or to become due to the Contractor.

Should the cost of correction of the Work and, if applicable, disposal of the condemned Work by the Owner exceed the amount due or to become due the Contractor, the Contractor and the Contractor's sureties shall be liable for and shall pay to the Owner the amount of such excess.

ARTICLE 18. CORRECTION OF WORK AFTER SUBSTANTIAL COMPLETION; WARRANTIES AND GUARANTIES

- 18.1** Neither the final certificate, Final Payment, occupation of the premises by the Owner, any provision of the Contract Documents, or any other act or instrument of the Owner or the Architect shall relieve the Contractor from responsibility for negligence, defective material or workmanship, or failure to comply fully with the Contract Documents.
- 18.2** The Contractor shall, at the Contractor's sole cost and expense, make all necessary repairs, replacements, and corrections of any nature or description, interior or exterior, structural or non-structural, that shall become necessary by reason of defective workmanship or materials which appear within a period of one (1) year from the date of Substantial Completion and acceptance of the Project by the Owner; provided, however that notwithstanding the preceding, if any longer guarantee period is specified for any particular materials or workmanship under the Contract Documents, or under any subcontract, or in connection with any manufactured unit which is installed in the Project, or under the laws of the State of North Carolina, the longer guarantee period shall govern.
- 18.3** If, within any guarantee period, repairs or changes are required in connection with the Work, which are rendered necessary as the result of the use of materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract Documents, the Contractor shall, promptly upon receipt of notice from the Architect and without expense to the Owner:
- a) Completely repair or replace the Work so that it conforms to the Contract Documents;
 - b) Correct all defects therein;
 - c) Make good all damage which, in the opinion of the Architect, is the result of the use of materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract Documents; and
 - d) Make good any Work or material, or any equipment or contents disturbed in fulfilling any such guarantee.

If, in fulfilling the requirements of the Contract Documents or of any guarantee embraced therein or required thereby, the Contractor disturbs any work, facility, premises, or construction belonging to the Owner, the Contractor shall restore such disturbed work, facility, premises or construction to a condition satisfactory to the Owner, and shall guarantee such restored work to the same extent as if it were Work under the Contract Documents.

If the Contractor, after notice, fails to proceed promptly to comply with the terms of the guarantee, the Owner may have the defects corrected, and the Contractor and the Contractor's sureties shall be liable for all expenses incurred. "Promptly" is defined as within twenty-four (24) hours for systems necessary to normal operation of the Tower and within seventy-two (72) hours for all other items. All special guarantees applicable to definite parts of the Work that may be shown in or required by Contract Documents shall be subject to the terms of this paragraph during the first year of the life of such special guarantee. Manufacturer's standard guarantees or warranties which do not comply with the time limit specified herein shall be extended by the Contractor automatically without further action on the part of the Owner or Architect.

- 18.4** In the eleventh calendar month after Substantial Completion of the entire Project, and at the request of the Owner, the Contractor, the Owner and the Architect shall make an inspection of the Work for the purpose of identifying defective workmanship and/or materials. If the Contractor, having been requested to do so by the Owner, fails to participate in such inspection, the Contractor shall be conclusively bound by any decision or ruling by the Architect as to any defective workmanship or material and as to the Contractor's responsibility for its repair or replacement.

ARTICLE 19. OWNER'S RIGHT TO DO WORK

- 19.1** If, during the progress of the Work or during any period of guarantee, the Contractor fails to prosecute the Work properly or to perform any provision of the Contract Documents, the Owner, after three (3) days written notice to the Contractor from the Architect, or from the Owner after Final Payment, may perform or have performed that portion of the Work and may deduct the cost thereof from any amount due or to become due the Contractor. Notwithstanding any action by the Owner under this paragraph, all warranties and bonds given or to be given by the Contractor shall remain in effect or shall be given by the Contractor.
- 19.2** Should the cost of such action by the Owner exceed the amount due or to become due the Contractor, the Contractor and the Contractor's sureties shall be liable for and shall pay to the Owner the amount of such excess.

ARTICLE 20. PARTIAL PAYMENTS

- 20.1** Within thirty (30) days after initial receipt of the Agreement by the Contractor for signatures the Contractor shall submit to the Architect a Schedule of Values. The Schedule of Values shall indicate the value of the Work, including applicable overhead and profit, for each Division and section of the Project Specifications. The Architect and Owner shall be provided with the Contractor's estimate papers, subcontractor agreements, supplier quotes, or other documents substantiating these values if so requested in writing by the Architect or Owner. The Contractor shall provide the requested documentation within seven (7) days after receipt of the Architect or Owner's written request. The Schedule of Values shall be subject to approval by the Owner, and if the Owner and the Contractor cannot agree upon the Schedule of Values, the Architect shall prepare it, and the Schedule of Values as prepared by the Architect shall be binding on the Owner and the Contractor. No Request for Payment shall be certified by the Architect until the Schedule of Values has been issued and approved.

20.2 Not later than the fifth (5th) day of each calendar month the Contractor shall submit to the Architect a Request for Payment for Work done during the previous calendar month. The Request for Payment shall be in form of AIA Document G702 (latest edition), or other published document approved by the Architect, and shall show substantially the value of Work done (including the value of material delivered to the Project or stored by the Contractor at another site, subject to the conditions hereinafter set forth) during the previous calendar month, and shall sum up the financial status of the Work with the following information:

- a) Total Contract Price, including any adjustment thereto made pursuant to the
- b) Contract Documents.
- c) Value of Work completed and materials properly stored to date.
- d) Less amount retained.
- e) Less previous payments.
- f) Current amount due.
- g) Contract Price balance remaining.

The Contractor, upon request of the Architect, shall substantiate the Request for Payment with invoices, vouchers, payrolls, or other evidence.

20.3 When payment is requested or made on account of stored materials, such materials must be stored on the Owner's property at such places and in such a manner as may be designated by the Architect. However, in the sole discretion of the Owner, with permission in writing from the Architect and Owner and under such circumstances as may be required by the Owner, such materials may be stored in a bonded warehouse. The location and conditions for storage of such materials away from the Owner's property in a bonded warehouse shall be within the sole discretion Of the Owner. Requests for Payment on account of stored materials shall be accompanied by paid invoices, bills of sale, warehouse receipts, or other documentary evidence establishing Owner's title to such materials, evidence that the stored materials are insured against loss and damage, and such other documentation as required by the Architect. Responsibility for the quantity, quality, and condition of such stored materials, whether stored on the Owner's property or away from the Owner's property, shall remain with the Contractor regardless of ownership or title. No payment shall be made on account of materials stored in a bonded warehouse unless the Contractor has acquired written permission from the Architect and the Owner for such storage of materials and has complied with all conditions set forth in such permission regarding such storage of materials in a bonded warehouse.

20.4 Any Request for Payment received by the Architect on or before the fifth (5th) day of the calendar month shall be certified for payment or returned for re-submission to the Contractor on or before the fifteenth (15th) day of the calendar month. The Architect's certification shall be for the amount which was requested or that which the Architect has decided was justly due, and shall state in writing to the Contractor and Owner the reasons for withholding payment of any or all of the amount requested.

20.5 The Architect may refuse to certify all or part of any payment requested for any of the following reasons:

- a) Defective Work not corrected.
- b) Suits, actions, or claims of any character filed against the Contractor, or due to the operations of the Contractor, or information or notice that a suit, action, or claim will be filed or has been made.

- c) Information or notice that a Subcontractor or a supplier has not received payment from the Contractor.
- d) The balance unpaid of the Contract Price is insufficient to complete the Work in the judgment of the Architect or Owner.
- e) Damage to the Owner or another contractor.
- f) Inability of the Contractor to meet a Completion Date, including an anticipated failure to meet a Completion Date entitling the Owner to withhold anticipated damages in accordance with paragraphs 13.11 and 13.12 of these General Conditions.
- g) Failure to furnish Submittal as required by the Contract Documents on a timely basis in accordance with the Submittal Register.
- h) Such other reason as to the Architect may appear prudent, proper, or equitable.

When grounds for withholding certification have been corrected or removed, the Architect shall so certify to the Owner and the Owner shall make any payment due with respect to such certification as a part of its next payment after such certification.

- 20.6** No certificate of payment issued or progress payment made shall constitute an acceptance of the Work or any part thereof.
- 20.7** The amount certified by the Architect for payment shall be ninety-five percent (95%) of the value of Work completed and materials stored since the Architect's last certification as shown on the Request for Payment, less any amounts not certified in accordance with paragraphs 20.4 and 20.5, and this amount shall be paid by the Owner on or before the last business day of the month, but payment shall not be past due if paid within fifteen (15) days after certification by the Architect.
- 20.8** After certification by the Architect (by means of certification for payment of Requests for Payment or otherwise) that the Work is fifty percent (50%) complete, and the Contractor has provided to the Owner the written consent of its sureties to the cessation of further percentage retention, the amount certified for payment with respect to subsequent Requests for Payment may in the discretion of the Owner be one hundred percent (100%) of the value of the Work completed and materials stored since the Architect's last certification as shown on the Request for Payment, less any amounts not certified in accordance with paragraph 20.4; provided, however, that the aggregate of periodic payments shall not exceed ninety-five percent (95%) of the Contract Price.

ARTICLE 21. FINAL PAYMENT

- 21.1** Final Payment shall not be due to the Contractor until Final Completion.
- 21.2** Upon Substantial Completion, the Architect shall prepare and submit to the Contractor deficiency lists identifying all portions of the Work which are shown at that time to be incomplete or defective. Within thirty (30) days of receipt of any deficiency list, the Contractor shall complete and correct all items on that list along with all other Work required to achieve Final Completion of the Work. At any time prior to completion of the period of warranty, the Architect may submit to the Contractor supplemental deficiency lists, in which case the Contractor shall complete or correct any and all new items identified on the supplemental deficiency lists within the time period stipulated in paragraph 18.3 of these General Conditions.

- 21.3** The making and acceptance of Final Payment shall constitute a waiver of all claims by the Owner except:
- a) Claims arising from unsettled liens or claims against the Contractor.
 - b) Defective Work or materials appearing after Final Payment.
 - c) Failure of the Contractor to perform the Work in accordance with the Contract Documents.
 - d) As conditioned in the Performance Bond.
 - e) Claims made prior to Final Payment which remain unsettled.
 - f) Amounts due arising under Articles 18 and 28 of these General Conditions.
 - g) Claims for recovery of overpayment based upon incorrect measurement, estimate, or certificate.
- 21.4** The making and acceptance of Final Payment shall constitute a waiver of all claims by the Contractor except those claims previously made in writing pursuant to paragraph 15.2 of these General Conditions and not finally resolved.
- 21.5** The Architect shall not authorize Final Payment until all of the Work under the Contract Documents has been certified by the Architect as completed, proper, and suitable for occupancy and use, and has been approved by all federal, state and local agencies having jurisdiction.
- 21.6** The final Request for Payment shall be identified on its face as such and shall be presented by the Contractor to the Architect within thirty (30) days of completion of the Work. Final payment of the retained amount due the Contractor shall be made by the Owner within thirty (30) days after the later of (i) full and Final Completion of all Work required of the Contractor by the Contract Documents, and certification of such Work in accordance with paragraph 21.5; (ii) submission of the affidavits and other documentation required by Article 22; (iii) submission by the Contractor of a Request for Payment identified on its face as final and including the Architect's certification.

ARTICLE 22. CONTRACTOR, SUBCONTRACTOR AND SUPPLIER AFFIDAVIT

- 22.1** The Final Payment due the Contractor on account of the Contract Documents shall not become due until the Contractor has furnished to the Owner: (A) an affidavit by the Contractor signed, sworn, and notarized to the effect that all payments for materials, services, or for any other reason in connection with the Work or performance of the Contract Documents have been satisfied and that no claims or liens exist against the Contractor in connection with the same; (B) affidavits from each Subcontractor and supplier signed, sworn, and notarized to the effect that (i) each such Subcontractor or supplier has been paid in full by the Contractor for all Work performed and/or materials supplied by it in connection with the Project, and (ii) that all payments for materials, services, and for any other reason in connection with the subcontract or supply contract have been satisfied and that no claims or liens exist against the Subcontractor or supplier in connection therewith; and (C) the written consent of the Contractor's sureties to Final Payment. In the event that the Contractor cannot obtain an affidavit, as required above, from any Subcontractor or supplier, the Contractor shall state in the Contractor's affidavit that no claims or liens exist against such Subcontractor or supplier to the best of the Contractor's knowledge, and that if any appear afterwards, the Contractor shall indemnify and save the Owner harmless for all costs and expenses, including attorney's fees, on account thereof.

ARTICLE 23. ASSIGNMENTS AND SUBCONTRACTS

- 23.1** The Contractor shall not assign any portion of this Agreement nor subcontract the Work in its entirety without the prior written consent of the Owner. Except as may be required under terms of the bonds required by the Contract Documents, no funds or sums of money due or to become due to the Contractor under the Contract Documents may be assigned.

ARTICLE 24. MEASUREMENTS

- 24.1** Before ordering material or doing Work which is dependent for proper size or installation upon coordination with site conditions, the Contractor shall verify all dimensions and shall be responsible for the correctness of same. No consideration will be given for any claim based on differences between the actual dimensions and those indicated in the Contract Documents. Any discrepancies between the Contract Documents and the existing conditions shall be referred to the Architect for adjustment before any Work affected thereby is begun.

ARTICLE 25. CONTRACTOR AND SUBCONTRACTOR AGREEMENTS

- 25.1** Within thirty (30) days after initial receipt of the Construction Agreement by the Contractor for signatures, the Contractor shall submit to the Architect and the Owner for acceptance a current list of the names of Subcontractors and such other persons and organizations (including those who are to furnish materials or equipment fabricated to a special design) proposed for any and all portions of the Work. The Contractor shall provide this list at this time even if the Contractor was required to submit a list of proposed Subcontractors with the Contractor's bid. The Architect shall promptly reply to the Contractor in writing stating whether or not the Owner or Architect, after due investigation, has objection to any such proposed person or entity or if it needs additional information to evaluate the persons or entities on the list. Failure of the Architect to reply within ten (10) days after the Contractor has furnished all required information shall constitute notice of no objection.

The Contractor shall not contract with any such proposed person or entity to which the Architect or Owner has made reasonable objection. If the Architect or Owner has reasonable objection to any such proposed person or entity, the Contractor shall submit a substitute to whom the Architect or Owner has no reasonable objection. The Contractor shall make no substitution for any Subcontractor, person, or entity previously allowed without first notifying the Architect in writing and no substitution may be made if the Architect or Owner makes a reasonable objection to such substitution.

- 25.2** The Contractor agrees that the terms of the Contract Documents, including all portions thereof, shall apply to all Subcontractors as if they were the Contractor, and that the Subcontractors shall, by means of their subcontracts, be bound by all the terms of the Contract Documents.
- 25.3** Payments to Subcontractors by the Contractor shall be made in accordance with the provisions of N.C. Gen. Stat. §143-134.1.

ARTICLE 26. USE OF PREMISES

- 26.1** The Contractor shall confine apparatus, the storage of materials, the operations of workers, and the disposal of material to limits indicated by law, ordinances, permits, and directions of the Architect, if any.
- 26.2** The Contractor shall not load or permit any part of the Work to be loaded with a weight that will endanger its safety, intended performance, or configuration.

- 26.3** The Contractor shall enforce all of the Architect's instructions, including, but not limited to, those regarding signs, advertisements, fires, and smoking.

ARTICLE 27. CUTTING, PATCHING AND FITTING

- 27.1** The Contractor shall do all cutting, fitting, and patching of the Work that may be required to make its several parts come together properly and fit it to receive or to be received by Work shown in or which can be reasonably implied from the Contract Documents.

ARTICLE 28. DISPUTE RESOLUTION

- 28.1** The laws of the State of North Carolina shall apply to the interpretation and enforcement of this Agreement. Any and all suits or actions to enforce, interpret, or seek damages with respect to any provision of, or the performance or nonperformance of, this Agreement shall be brought in the General Court of Justice of North Carolina sitting in Randolph County, North Carolina, and it is agreed by the parties that no other court shall have jurisdiction or venue with respect to such suits or actions. Appendix A shall be a part of the Contract Documents. Prior to initiating an action under this Article, any party to this Agreement shall initiate the mediation process as provided in Appendix A to these General Conditions.
- 28.2** Any person or firm that expressly or impliedly agrees to perform labor or services or to provide material, supplies, equipment, work, performance or payment bonds, insurance or indemnification for the construction of the Project or the Work shall be deemed a party to this Agreement solely for the purpose of this Article 28. The Contractor, by means of its subcontracts, shall specifically require its Subcontractors to be bound by this Article.

ARTICLE 29. TAXES

- 29.1** The Contractor has included in the Contract Price, and shall pay, all taxes assessed by any authority on the Work or on the labor and materials used therein. The Contractor shall maintain all tax records during the life of the Project and furnish the Owner with a complete listing of all taxes paid by taxing authority, invoice number, date, amount, etc. in a form acceptable to the Owner. The Contractor is required to maintain a file showing taxes paid on the Project for three (3) years after Final Payment or turn said documents over to the Owner for its files.
- 29.2** The following is a list of requirements to be followed by the Contractor in maintaining proper records and reporting the North Carolina Sales and Use Tax and Local Sales and Use Tax. The Contractor shall comply fully with the requirements outlined below, in order that the Owner may recover the amount of the tax permitted under the law.
- a) It shall be the Contractor's responsibility to furnish the Owner documentary evidence showing the materials used and sales and use tax paid by the Contractor and by each of its Subcontractors. Such evidence shall be transmitted to the Owner with each pay request regardless of whether taxes were paid in that period covered by the pay request.
 - b) The documentary evidence shall consist of a certified statement by the Contractor and by each of the Contractor's Subcontractors individually, showing total purchases of materials from each separate vendor and total sales and use taxes paid to each vendor. Certified statements must show the invoice number, or numbers, covered, and inclusive dates of such invoices.
 - c) Materials used from Contractor's or Subcontractor's warehouse stock shall be shown in a certified statement at warehouse stock prices.
 - d) The Contractor shall not be required to certify the Subcontractor's statements.

ARTICLE 30. OPERATION OF OWNER'S FACILITIES

- 30.1** The Contractor agrees that all Work done under the Contract Documents shall be carried on in such a manner so as to ensure the regular and continuous operation of the adjoining or adjacent facilities. The Contractor further agrees that the sequence of operations under the Contract Documents shall be scheduled and carried out so as to ensure said regular and continuous operation. The Contractor shall not close any areas of construction until so authorized by the Architect. The Contractor shall control operations to assure the least inconvenience to the public. Under all circumstances, safety shall be the most important consideration.

ARTICLE 31. THIRD-PARTY BENEFICIARY CLAUSE

- 31.1** It is specifically agreed between the parties executing the Agreement that, with the specific exception set forth paragraph 7.26 of these General Conditions, and that exception only, the Contract Documents and the provisions therein are not intended to make the public, or any member thereof, a third-party beneficiary of the Agreement, or to authorize anyone not a party to the Contract Documents to maintain a suit for personal injuries or property damage pursuant to the terms of provisions of the Contract Documents.

ARTICLE 32 MEASUREMENT OF QUANTITIES

- 32.1** All Work completed under the Contract Documents shall be measured by the Contractor using United States customary units of measurement. The method of measurement and computations to be used in determination of quantities of material furnished and of Work performed under the Contract Documents shall be those methods set forth in the Contract Documents or, if not specifically set forth therein, the method generally recognized as conforming to good engineering practice.

ARTICLE 33. TERMINATION BY THE OWNER FOR CAUSE

- 33.1** If the Contractor fails to begin or complete the Work under the Contract Documents within the time specified, or fails to perform the Work with sufficient labor and equipment or with sufficient materials to insure the prompt completion of said Work, or shall perform the Work unsuitably or shall discontinue the prosecution of the Work for three (3) consecutive days, or if the Contractor shall become insolvent, be declared bankrupt, commit any act of bankruptcy or insolvency, allow any final judgment to stand against the Contractor or its affiliated companies unsatisfied for a period of forty-eight (48) hours, make an assignment for the benefit of creditors, or for any other cause whatsoever shall not carry on the Work in an acceptable manner, the Owner may give notice in writing to the Contractor and the Contractor's sureties of such delay, neglect, or default, specifying the same, and if the Contractor within a period of three (3) days after such notice shall not proceed in good faith and with reasonable speed to correct such delay, neglect, or default in accordance with such notice, the Owner shall have full power and authority, to the extent permitted by law, without violating the Contract Documents, to take the prosecution of the Work out of the hands of the Contractor, to appropriate or use any or all materials and equipment at the Project as may be suitable and acceptable, and may enter into an agreement for the completion of the Work or pursue such other methods as in the Owner's sole discretion and opinion shall be necessary or appropriate for the completion of the Work in an acceptable manner. All costs and charges incurred by the Owner in proceeding in accordance with the preceding sentence, including attorney's fees, and all costs incurred by the Owner in completing the Work shall be deducted from any amount due or which becomes due the Contractor. If such costs and expenses incurred by the Owner shall be less than the sum which would have been payable under Contract Documents if it had been completed by the Contractor, then the Contractor shall be entitled to receive the difference, but if such costs and expenses shall exceed the sum which would have been payable under the Contract Documents, the Contractor and the Contractor's surety or

sureties shall be liable to the Owner for and shall pay to the Owner the amount of such excess.

- 33.2** If the Owner terminates the Agreement pursuant to this Article 33 and later it is determined that the Contractor had not substantially failed to perform in accordance with the terms of this Article, then the termination will be considered a termination for convenience under Article 34.

ARTICLE 34. TERMINATION OR SUSPENSION BY THE OWNER FOR CONVENIENCE

- 34.1** The Owner may, without cause, order the Contractor to terminate, suspend, delay, or interrupt the Work in whole or in part for such period of time as the Owner may determine.
- 34.2** If the Contractor is subsequently ordered by the Owner to resume the Work, any cost or expenses to which the Contractor may be entitled by reason of the suspension, delay, or interruption shall be recovered by means of a Change Order in accordance with Articles 13 and 14 of these General Conditions and the Contractor's Construction Schedule shall be adjusted in accordance with Article 13 of these General Conditions.
- 34.3** The Owner shall terminate the Work or portion thereof by written notice when the Contractor is prevented from proceeding with the Work as a direct result of an executive order of the President with respect to the prosecution of war or in the interest of national defense.
- 34.4** In the event of termination by the Owner under this Article, the Contractor shall be entitled to receive the reasonable and documented direct costs incurred prior to termination, including the cost of materials purchased for the Work which purchases cannot be canceled or which material cannot reasonably be used by the Contractor on other work, and the cost of closing down the Project in a safe and efficient manner, plus ten percent (10%) thereof for overhead and profit, subject to the following conditions:
- a) When the Contract is terminated before completion of all items of Work, payment shall be made for the actual number of units or items of Work completed at the applicable contract prices, or as mutually agreed for items of Work partially complete. If a mutual agreement cannot be reached, the Owner shall have the authority to make such equitable adjustment as it deems warranted and the Final Payment shall be made accordingly.
 - b) Reimbursement for organization of any Work and moving equipment to and from the job shall be considered when not otherwise provided for in the Contract Documents where the volume of completed Work is too small to compensate the Contractor for those expenses under unit prices. If a mutual agreement cannot be reached, the Owner will have the authority to make such equitable adjustment as it deems warranted and the Final Payment will be made accordingly.
 - c) Materials obtained by the Contractor for the Work that have been inspected and accepted by the Architect and that are not incorporated in the Work shall, at the request of the Contractor, be purchased from the Contractor at the Contractor's actual cost as shown by receipted bills and actual costs records at such points of delivery as may be determined by the Owner.
 - d) No payment shall be made by the Owner to the Contractor except as herein above provided. No claim for loss of anticipated profits shall be considered or allowed.
 - e) Termination of the Contract shall not relieve the Contractor of its responsibilities for any completed portion of the Work nor shall it relieve its sureties of their obligation for and concerning any just claims arising out of the Work performed.

In the event of termination or suspension by the Owner for convenience, the Contractor shall not be entitled to any other compensation, including compensation for lost profit, lost opportunity, or any other direct or consequential cost, loss, or damage.

ARTICLE 35. MINORITY BUSINESS ENTERPRISE PROGRAM

- 35.1** The Contractor shall at all times comply with the latest edition of the Randolph County Minority Business Outreach Plan. All documentation substantiating compliance with the requirements of this program shall be delivered to the Owner and Architect as stipulated in the Contract Documents.

ARTICLE 36. GENERAL

- 36.1** If any provision of the Agreement shall be declared invalid or unenforceable, the remainder of the Agreement shall continue in full force and effect.
- 36.2** The titles to Articles herein are for convenience only, are not substantive parts of the General Conditions, and are not to be considered in interpreting the Contract Documents.

END OF GENERAL CONDITIONS OF THE
CONTRACT

Construction Contract

THIS AGREEMENT, made the _____ day of _____ in the year of 20__ by and between _____ hereinafter called the "Contractor" and the County of Randolph hereinafter called the "County."

WITNESSETH:

That the Contractor and the County for the consideration herein named agree as follows:

1. Scope of Work: The Contractor shall furnish and deliver all of the materials, and perform all of the work in the manner and form as provided by the following enumerated plans, specifications and documents, which are attached hereto and made a part thereof as if fully contained herein: advertisement; Instructions to Bidders; General Conditions; Supplementary General Conditions, if any; specifications; accepted proposal; contract; performance bond; payment bond; power of attorney; workmen's compensation; public liability; property damage and builder's risk insurance certificates, and drawings, titled:

Consisting of the following sheets:

Dated: _____ and the following addenda:

Addendum No. _____ Dated: _____ Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____ Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____ Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____ Addendum No. _____ Dated: _____

2. That the Contractor shall commence work to be performed under this agreement on a date to be specified in a written order of the County and shall fully complete all work hereunder within _____ consecutive calendar days from said date. For each day in excess thereof, liquidated damages shall be assessed at four hundred dollars (\$400.00) per day. The Contractor, as one of the considerations for the awarding of this contract, shall furnish to the County a construction schedule setting forth planned progress of the project broken down by the various divisions or part of the work and by calendar days as outlined in Article 13 of the General Conditions of the Contract.

3. The County hereby agrees to pay to the Contractor for the faithful performance of this agreement, subject to additions and deductions as provided in the specifications or proposal, in lawful money of the United States as follows: _____
(\$ _____).

Summary of Contract Award:

4. In accordance with, and as specified in, Article 20 and Article 21 of the General Conditions of the Contract, the County shall review, and if approved, process the Contractor's pay request within a timely manner and in no event later than thirty (30) days upon receipt from the Architect. The County, after reviewing and approving said pay request, shall make payments to the Contractor on the basis of a duly certified and approved estimate of work performed during the preceding calendar month by the Contractor, less five percent (5%) of the amount of such estimate which is to be retained by the County until all work has been performed strictly in accordance with this agreement and until such work has been accepted by the County. The County may elect to waive retainage requirements after 50 percent of the work has been satisfactorily completed on schedule as referred to in Article 20 of the General Conditions.

5. Upon submission by the Contractor of evidence satisfactory to the County, as specified in Article 21 of the General Conditions, that all payrolls, material bills and other costs incurred by the Contractor in connection with the construction of the work have been paid in full, final payment on account of this agreement shall be made within thirty (30) days after the completion by the Contractor of all work covered by this agreement and the acceptance of such work by the County.

6. It is further mutually agreed between the parties hereto that if at any time after the execution of this agreement and the surety bonds hereto attached for its faithful performance, the County shall deem the surety or sureties upon such bonds to be unsatisfactory, or if, for any reason, such bonds cease to be adequate to cover the performance of the work, the Contractor shall, at its expense, within five (5) days after the receipt of notice from the County so to do, furnish an additional bond or bonds in such form and amount, and with such surety or sureties as shall be satisfactory to the County. In such event no further payment to the Contractor shall be deemed to be due under this agreement until such new or additional security for the faithful performance of the work shall be furnished in manner and form satisfactory to the County.

7. The Contractor attests that it and all of its subcontractors have fully complied with all requirements of NCGS 64 Article 2 in regards to E-Verification as required by Section 2.(c) of Session Law 2013-418, codified as N.C. Gen. Stat. § 143-129(j).

IN WITNESS WHEREOF, the Parties hereto have executed this agreement on the day and date first above written in _____ counterparts, each of which shall without proof or accounting for other counterparts, be deemed an original contract.

CONTRACTOR

Witness:

Contractor: (Trade or Corporate Name)

(Proprietorship or Partnership)

By: _____

Title: _____
(Owner, Partner, or Corp. Pres. or Vice Pres. only)

Attest: (Corporation)

By: _____

Title: _____
(Corp. Sec. or Asst. Sec. only)

(CORPORATE SEAL)

RANDOLPH COUNTY

Signature

Witness:

By: _____

Title: _____

This instrument has been pre-audited in the manner required by the Local Government and Fiscal Control Act.

Randolph County Finance Officer

FORM OF PERFORMANCE BOND

Date of Contract: _____

Date of Execution: _____

Name of Principal
(Contractor) _____

Name of Surety: _____

Name of Contracting
Body: _____

Amount of Bond: _____

Project _____

KNOW ALL MEN BY THESE PRESENTS, that we, the principal and surety above named, are held and firmly bound unto the above named contracting body, hereinafter called the contracting body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind, ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the contracting body, identified as shown above and hereto attached:

NOW, THEREFORE, if the principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the contracting body, with or without notice to the surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Executed in _____ counterparts.

Witness:

Contractor: (Trade or Corporate Name)

(Proprietorship or Partnership)

By: _____

Attest: (Corporation)

Title: _____
(Owner, Partner, or Corp. Pres. or Vice Pres. only)

By: _____

Title: _____
(Corp. Sec. or Asst. Sec. only)

(Corporate Seal)

(Surety Company)

Witness:

By: _____

Title: _____

(Attorney in Fact)

Countersigned:

(Surety Corporate Seal)

(N.C. Licensed Resident Agent)

Name and Address-Surety Agency

Surety Company Name and N.C.
Regional or Branch Office Address

FORM OF PAYMENT BOND

Date of Contract: _____

Date of Execution: _____

Name of Principal
(Contractor) _____

Name of Surety: _____

Name of Contracting
Body: _____

Amount of Bond: _____

Project _____

KNOW ALL MEN BY THESE PRESENTS, that we, the principal and surety above named, are held and firmly bound unto the above named contracting body, hereinafter called the contracting body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the contracting body identified as shown above and hereto attached:

NOW, THEREFORE, if the principal shall promptly make payment to all persons supplying labor/material in the prosecution of the work provided for in said contract, and any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Executed in _____ counterparts.

Witness:

Contractor: (Trade or Corporate Name)

By: _____

(Proprietorship or Partnership)

Attest: (Corporation)

Title _____
(Owner, Partner, or Corp. Pres. or Vice Pres. only)

By: _____

Title: _____
(Corp. Sec. or Asst. Sec.. only)

(Corporate Seal)

(Surety Company)

Witness:

By: _____

Title: _____
(Attorney in Fact)

Countersigned:

(Surety Corporate Seal)

(N.C. Licensed Resident Agent)

Name and Address-Surety Agency

Surety Company Name and N.C.
Regional or Branch Office Address

BID# 16-0209 PROPOSAL FORM

Randolph County Government

Bidder: _____

Construction of Communications Tower

Date: _____

The undersigned, as bidder, hereby declares that the only person or persons interested in this proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. The bidder further declares that he has examined the site of the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed. The bidder further declares that he and his subcontractors have fully complied with NCGS 64, Article 2 in regards to E-Verification as required by Section 2.(c) of Session Law 2013-418, codified as N.C. Gen. Stat. § 143-129(j).

The Bidder proposes and agrees if this proposal is accepted to contract with the

Randolph County Government

in the form of contract specified below, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of

Randolph County Communications Tower

in full and complete accordance with the plans, specifications and contract documents, to the full and entire satisfaction of the County of Randolph,

with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and the contract documents, for the sum of:

BASE BID PRICING:

Foundation Materials	Dollars (\$)_____
Foundation Installation	Dollars (\$)_____
Tower Materials	Dollars (\$)_____
Tower Installation	Dollars (\$)_____
Sales Tax	Dollars (\$)_____
	<u>TOTAL (\$)</u> _____

OPTIONS:

Should any of the alternates as described in the bid specifications be accepted, the amount written below shall be the amount to be "added to" the above base bid.

Option #1

Installation of Randolph County provided antennas, transmission lines, lightning surge suppressors, coax grounding straps/conductors, and associated hardware for the antenna list (Pages 9 and 10)

Labor Dollars (\$)_____

Option #2

Dual (white/day and red/night) LED tower aircraft lighting (Page 13, Section 2.5.3 Tower Aircraft Lighting)

Lighting Materials Dollars (\$)_____

Lighting Labor Dollars (\$)_____

Sales Tax Dollars (\$)_____

TOTAL (\$)_____

CONSTRUCTION COMPLETION:

The bidder further proposes and agrees hereby to commence work under this contract on a date to be specified in a written order from the Owner and shall fully complete all work thereunder within _____ days. Applicable liquidated damages amount is also stated in the Contract.

ADDENDUM ACKNOWLEDGEMENTS:

Addendum received and used in computing bid:

Addendum No. 1 _____ Addendum No. 3 _____ Addendum No. 5 _____

Addendum No. 2 _____ Addendum No. 4 _____ Addendum No. 6 _____

EXCEPTIONS (if any):

LICENSURE:

NC Contractors License # _____

REFERENCES:

Company Name	Contact Name	Phone Number

Proposal Signature Page

Respectfully submitted this day of _____

(Name of firm or corporation making bid)

WITNESS:

By: _____
Signature

(Proprietorship or Partnership)

Name: _____
Print or type

Title _____
(Owner/Partner/Pres./V. Pres)

Address _____

ATTEST:

By: _____

License No. _____

Title: _____
(Corp. Sec. or Asst. Sec. only)

Federal I.D. No. _____

Email Address: _____

(CORPORATE SEAL)